

ChemoDOTS Web Server

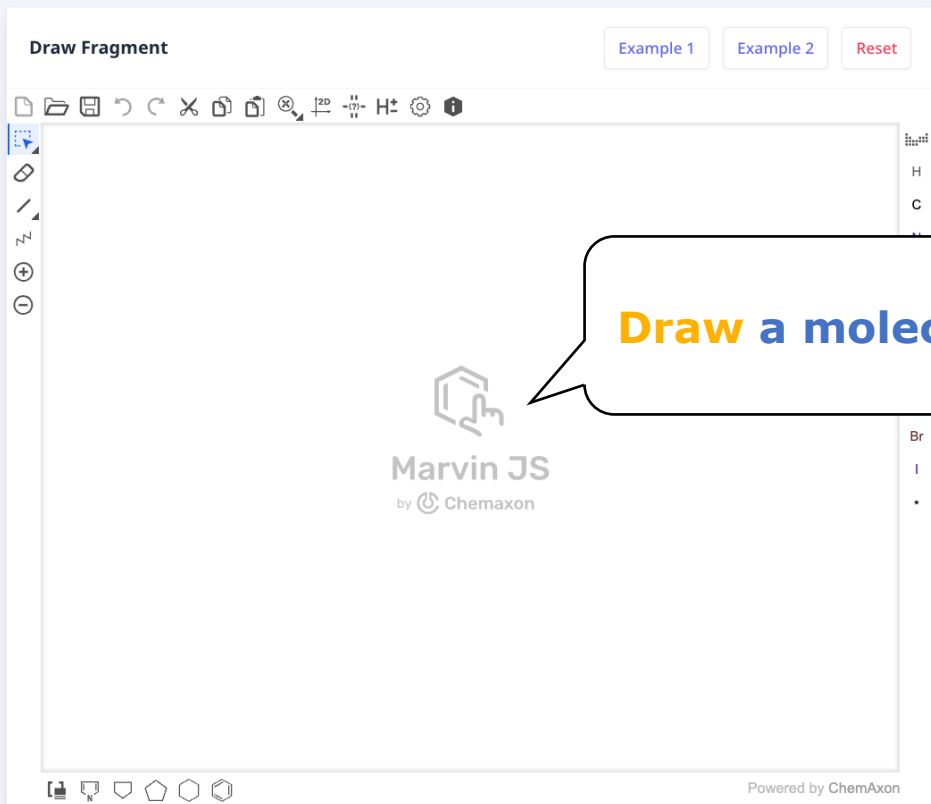
Step by Step Tutorial



Draw Fragment

Example 1 Example 2 Reset

SMILES code



Draw a molecule

Marvin JS
by Chemaxon

Powered by ChemAxon

? How to use the server ?

- 1 Draw or import molecules in sketcher
- 2 Chemical functions are automatically detected
- 3 Select function used as attachment point for growing
- 4 Select reaction(s) for growing
- 5 Generate raw chemical library
- 6 Filter library using physico-chemical properties
- 7 Generate mol2 files with atom types and charges

Optional steps

Progress through each step by using [Next ->](#)

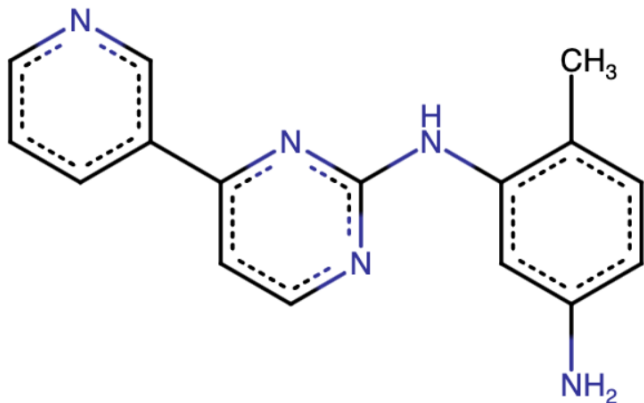
[Next ->](#)

Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon

```
Cc1ccc(N)cc1Nc1nccc(n1)-c1cccnc1
```

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[Next >](#)

Draw Fragment

Example 1

Example 2

Reset

SMILES code

Import

Open file

Choisir un fichier Aucun fichier choisi

Paste source

<auto recognize>

Paste here...

Add Replace

Powered by ChemAxon

Or Import a molecule

? How to use the server ?

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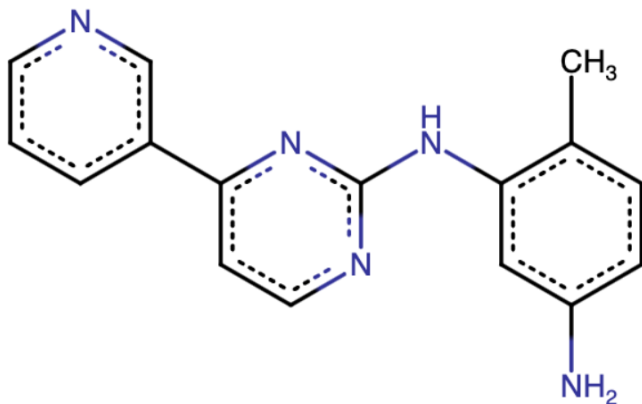
[Next >](#)

Draw Fragment

Example 1

Example 2

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[Next >](#)

Draw Fragment

Example 1

Example 2

Reset

SMILES code

Or use provided
examples



Powered by ChemAxon

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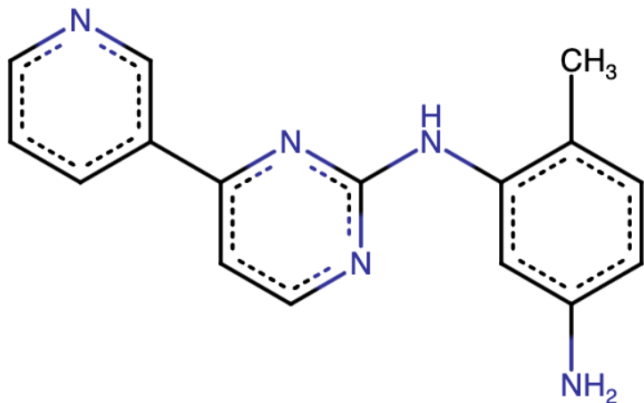
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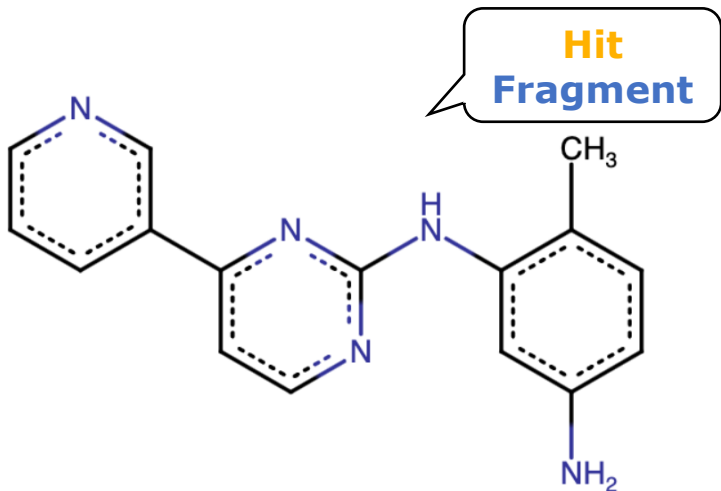
[Next >](#)

Draw Fragment

Example 1

Example 2

Reset



H
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Powered by ChemAxon

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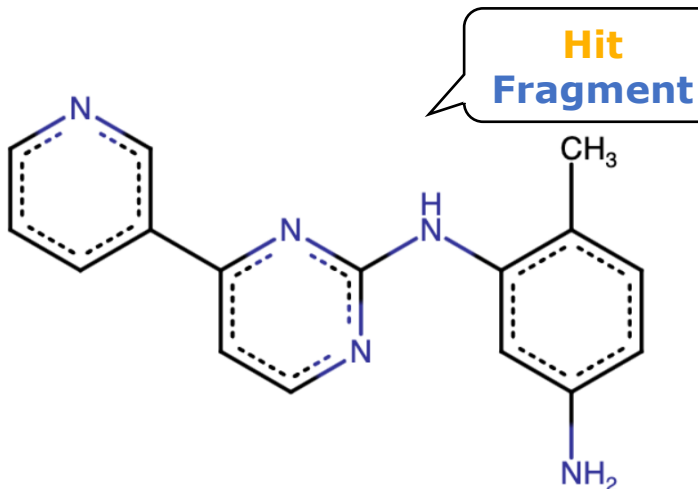
[Next >](#)

Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon

Cc1ccc(N)cc1Nc1nccc(n1)-c1cccnc1

SMILES Code of Hit Fragment

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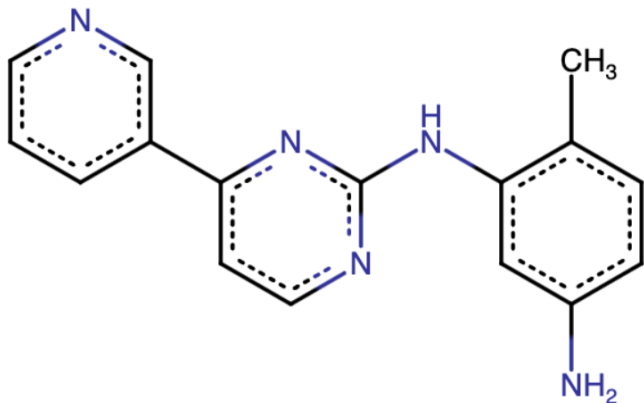
Draw Fragment

Example 1

Example 2

Reset

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Progress through each step by using [Next >](#)

Press Next

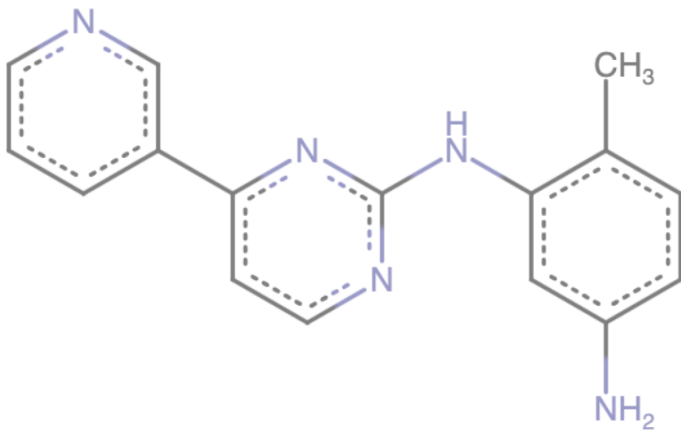
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Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon

Choose the targeted function.

- Primary arylamine
- Secondary arylamine

Reactive Functions are automatically detected

<- Previous

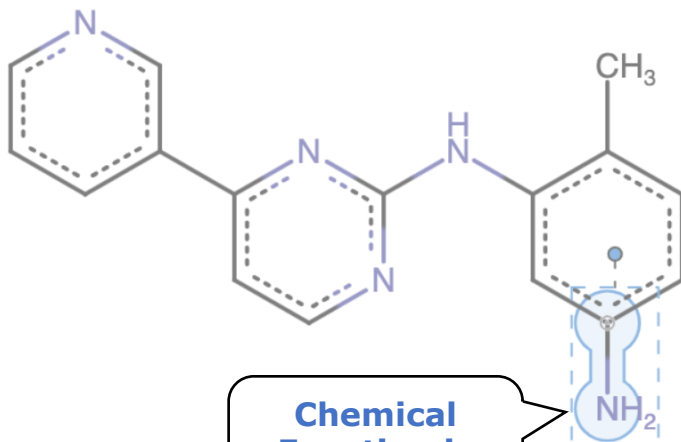
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Draw Fragment

Example 1

Example 2

Reset



Chemical
Function is
Highlighted

Powered by ChemAxon

Choose the targeted function

- Primary arylamine
- Secondary arylamine

 Select all

Commonly used reactions

 Select all

- Hartenfeller 47: Schotten-Baumann amide
- Hartenfeller 48: Sulfonamide
- Hartenfeller 51: Buchwald-Hartwig
- iSCB 65: Williamson-like amine
- iSCB 68: Amide acyl-chloride

Less frequently used reactions

Functions are
highlighted upon
selection

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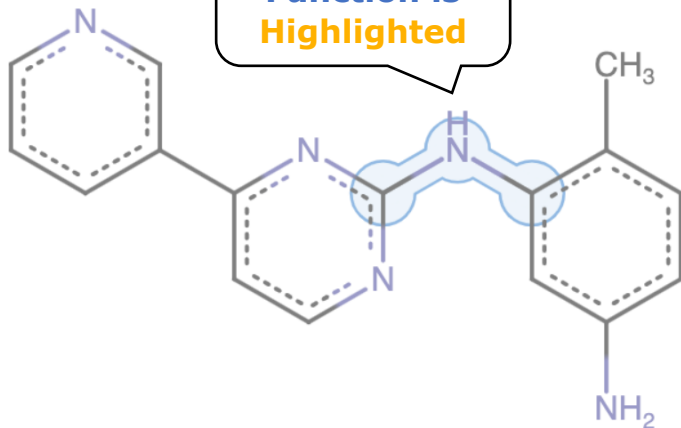
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Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon

Choose the targeted function.

- Primary arylamine
- Secondary arylamine
- Select all

Functions are highlighted upon selection

Commonly used reactions

 Select all

- Hartenfeller 47: Schotten-Baumann amide
- Hartenfeller 48: Sulfonamide
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Less frequently used reactions

< Previous

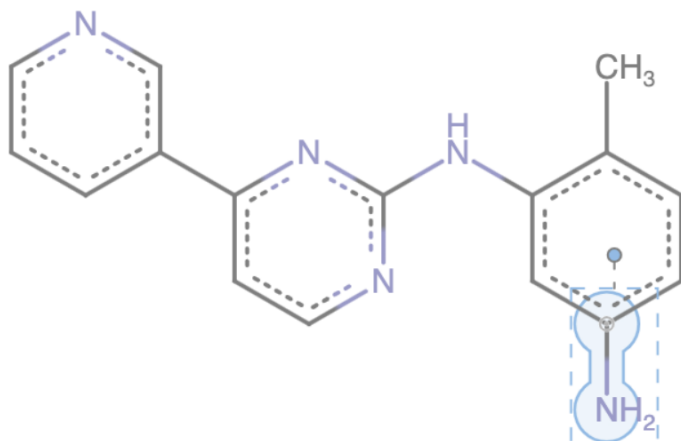
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Draw Fragment

Example 1

Example 2

Reset



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Choose the targeted function

- Primary arylamine
- Secondary arylamine
- Select all

Select Reactive Function to be used for Growing strategy

Commonly used reactions

 Select all

- Hartenfeller 47: Schotten-Baumann amide
- Hartenfeller 48: Sulfonamide
- Hartenfeller 51: Buchwald-Hartwig
- iSCB 65: Williamson-like amine
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Less frequently used reactions

<- Previous

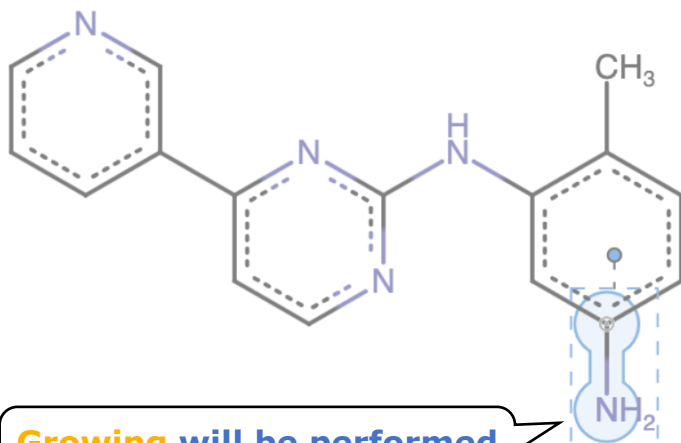
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Example 1

Example 2

Reset



Growing will be performed on this position



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Choose the targeted function

- Primary arylamine
- Secondary arylamine
- Select all

Select Reactive Function to be used for Growing strategy

Commonly used reactions

 Select all

- Hartenfeller 47: Schotten-Baumann amide
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- Hartenfeller 51: Buchwald-Hartwig
- iSCB 65: Williamson-like amine
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Less frequently used reactions

<- Previous

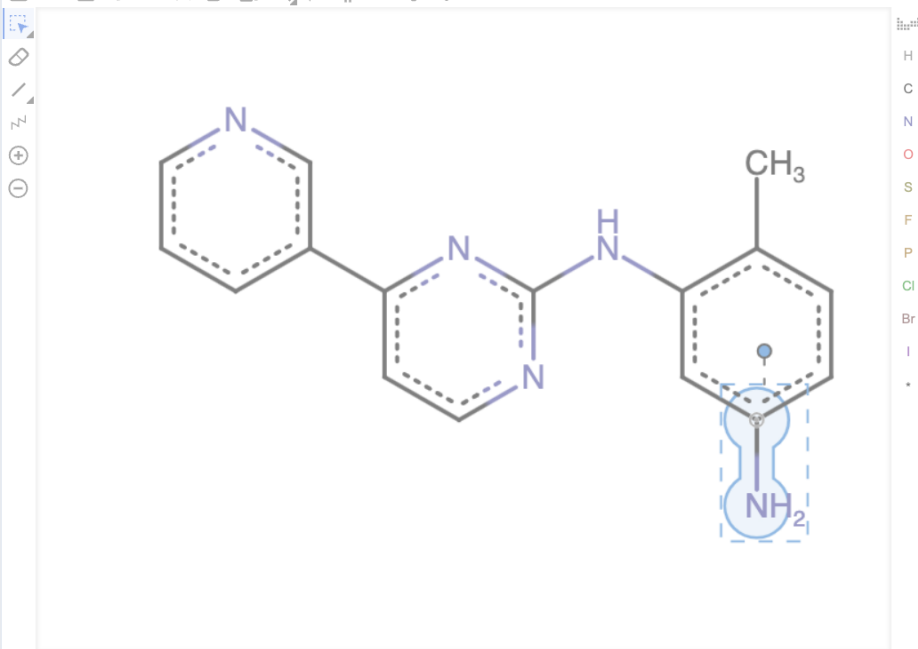
Next ->

Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon



Choose the targeted function.

- Primary arylamine
- Secondary arylamine

 Select all

Commonly used reactions

 Select all

- Hartenfeller 47: Schotten-Baumann amide
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- Hartenfeller 51: Buchwald-Hartwig
- iSCB 65: Williamson-like amine
- iSCB 68: Amide acyl-chloride

Less frequently used reactions



**Compatible
chemical reaction(s)
are displayed**

<- Previous

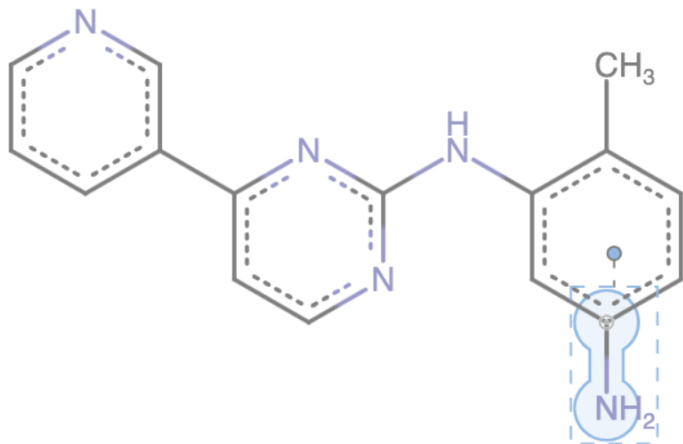
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Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon

Choose the targeted function.

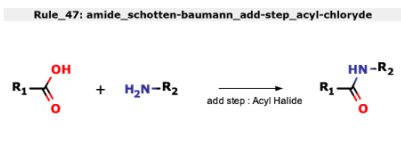
- Primary arylamine
- Secondary arylamine

 Select all

Com

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Less frequently used reactions



Hover the mouse over the icon to display a reaction

<- Previous

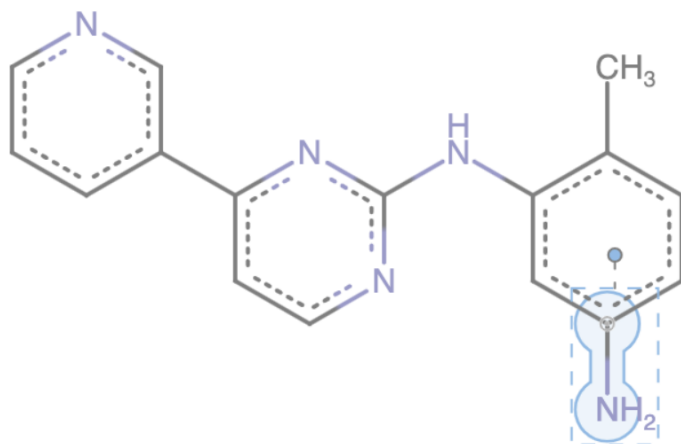
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Draw Fragment

Example 1

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Reset


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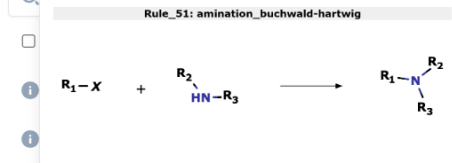

Powered by ChemAxon

Choose the targeted function.

- Primary arylamine
- Secondary arylamine

 Select all

Commonly used reactions


 Hartenfeller 51: Buchwald-Hartwig

Hover the mouse over the icon to display a reaction

Less frequently used reactions

<- Previous

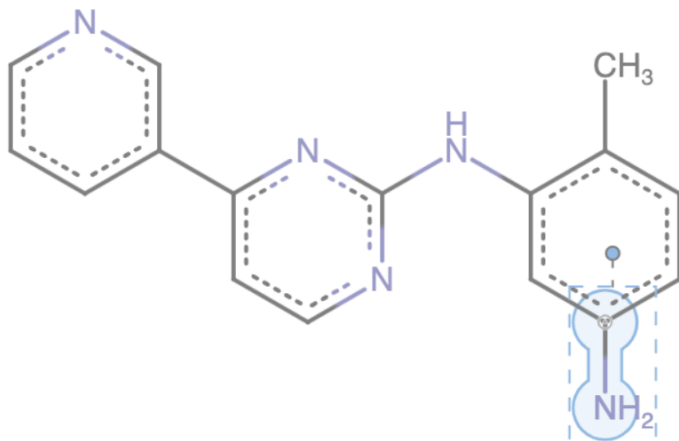
Next ->

Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon

Choose the targeted function.

- Primary arylamine
- Secondary arylamine

 Select all

Commonly used reactions

 Select all

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- Hartenfeller 48: Sulfonamide
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- ISCB 65: Williamson-like amine
- ISCB 68: Amide acyl-chloride

Less frequently used reactions ▼

Select the desired reaction(s) to perform growing

<- Previous

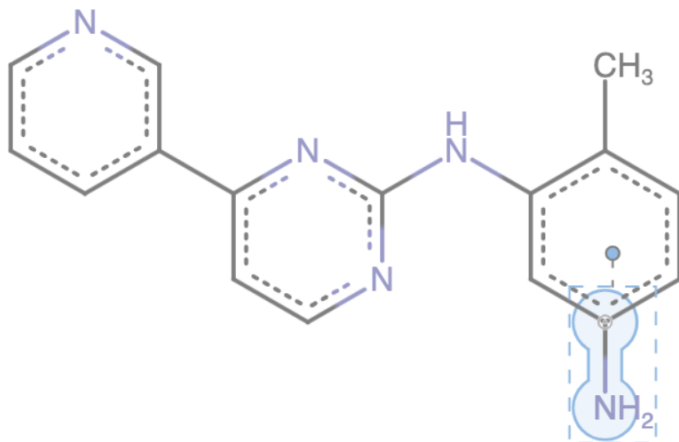
Next ->

Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon

Choose the targeted function.

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Commonly used reactions

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Less frequently used reactions



It is recommended to only use 1 or 2 reactions when trying for the first time.

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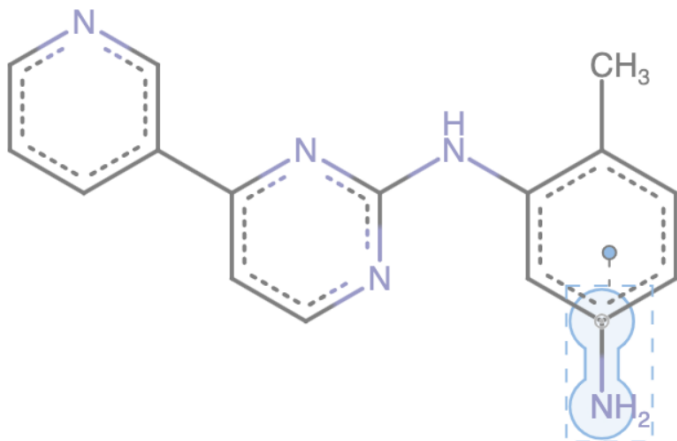
Next ->

Draw Fragment

Example 1

Example 2

Reset



Powered by ChemAxon

Choose the targeted function.

- Primary arylamine
- Secondary arylamine
- Select all

Commonly used reactions

 Select all

- Hartenfeller 47: Schotten-Baumann amide
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Less frequently used reactions

Press Next

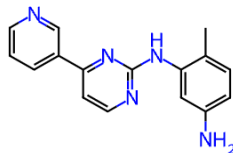
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Selected parameters

Summary

Fragment



Descriptors

Molecular weight: 277.13
 H-bond acceptors: 5
 H-bond donors: 2
 Rotatable bonds: 3
 TPSA: 76.72
 Chiral centers: 0

Smiles

Cc1ccc(N)cc1Nc1nccc(n1)-c1ccnc1

Targeted Function

Primary arylamine

Reaction rules

Hartenfeller 47: Schotten-Baumann amide
 Hartenfeller 51: Buchwald-Hartwig

Building Block databases

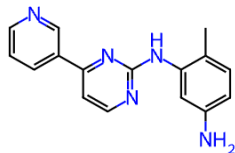
Molport (default)

[<- Previous](#)

[Generate ->](#)

Summary

Fragment



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**Properties of
Hit Fragment**

Smiles

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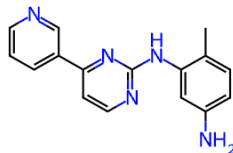
Molport (default)

[<- Previous](#)

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**Fragment
SMILES**

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Building Block databases

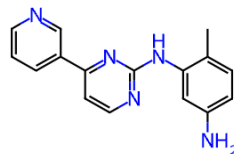
Molport (default) ▼

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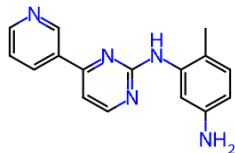
**Targeted
 Functions**

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Summary

Fragment



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Targeted Function

Primary arylamine

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 Hartenfeller 51: Buchwald-Hartwig

Building Block databases

Molport (default)

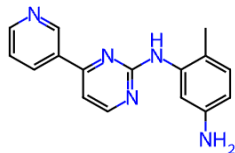
**Selected
Reactions**

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Summary

Fragment



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Targeted Function

Primary arylamine

Reaction rules

Hartenfeller 47: Schotten-Baumann amide
 Hartenfeller 51: Buchwald-Hartwig

Building Block databases

Select Building Block
Source

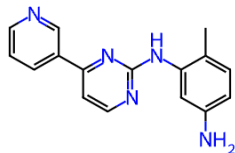
MolPort  

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Summary

Fragment



Descriptors

Molecular weight: 277.13
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 Rotatable bonds: 3
 TPSA: 76.72
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Smiles

Cc1ccc(N)cc1Nc1nccc(n1)-c1ccnc1

Targeted Function

Primary arylamine

Reaction rules

Hartenfeller 47: Schotten-Baumann amide
 Hartenfeller 51: Buchwald-Hartwig

Building Block databases

Molport (default) ✓

Enamine

Enamine + Molport

Select Building Block
Source

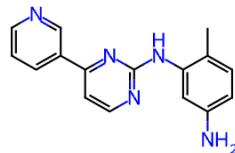


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Summary

Fragment



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Smiles

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Targeted Function

Primary arylamine

Reaction rules

Hartenfeller 47: Schotten-Baumann amide
 Hartenfeller 51: Buchwald-Hartwig

Building Block databases

**Generate the
Chemical Library**

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Generate >

Chemical Library Generation

Please wait while your chemical library is generated



The time required can vary from a **few seconds** to **several minutes**, depending on the number of compounds being generated.

1000 to 1500 compounds are generated per second.



It takes approximately 2 minutes for this example

ChemoDOTS web server (<https://chemodots.marseille.inserm.fr/>)

Log Page

Raw library download

Here you can find some statistics about the raw library generation. The downloads are available **below**.

Duration of library generation: **00:02:10**

You can **bookmark** the following link to reload and **access the saved data**, which will be stored for **two weeks**:

<https://chemodots.marseille.inserm.fr/growing?tab=4&experiment=2ea35fe8-3c8e-4a08-b4ff-265023eb843f>

Overall

Total building blocks	501542
Reacted building blocks	30.0% (150501/501542)
Generated products	150501
Duplicate products	10.3% (15497/150501)
Final products	89.7% (135004/150501)
Overall contribution to chemical space	100.0% (135004/135004)

Hartenfeller 47: Schotten-Baumann amide

[Generated products overview](#)

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Overall contribution to chemical space	100.0% (135004/135004)

Hartenfeller 47: Schotten-Baumann amide

[Generated products overview](#)

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Log Page

Bookmark this page to
access your data later

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Generated products	150501
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Final products	89.7% (135004/150501)
Overall contribution to chemical space	100.0% (135004/135004)

Hartenfeller 47: Schotten-Baumann amide

[Generated products overview](#)

Log Page

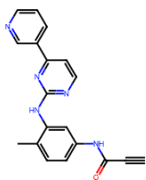
Overall Statistics
of the chemical
library

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Hartenfeller 47: Schotten-Baumann amide

Generated products overview



MolPort-003-939-170.MolPort-002-472-840



Molecule **representative** of the generated compounds for reaction 47

Total building blocks	501542
Reacted building blocks	13.8% (69161/501542)
Generated products	69161
Duplicate products	<0.1% (13/69161)
Final products	100.0% (69148/69161)
Overall contribution to chemical space	51.2% (69148/135004)

Hartenfeller 51: Buchwald-Hartwig

Generated products overview



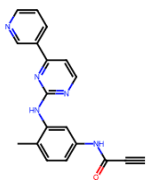
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Hartenfeller 47: Schotten-Baumann amide

Generated products overview



MolPort-003-939-170.MolPort-002-472-840



Click on the image to display a subset of the virtual library

Total building blocks	501542
Reacted building blocks	13.8% (69161/501542)
Generated products	69161
Duplicate products	<0.1% (13/69161)
Final products	100.0% (69148/69161)
Overall contribution to chemical space	51.2% (69148/135004)

Hartenfeller 51: Buchwald-Hartwig

Generated products overview



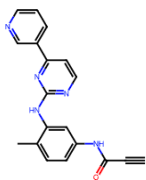
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Hartenfeller 47: Schotten-Baumann amide

Generated products overview



MolPort-003-939-170.MolPort-002-472-840



Click on the image to display a subset of the virtual library

Total building blocks

Reacted building blocks

Generated products

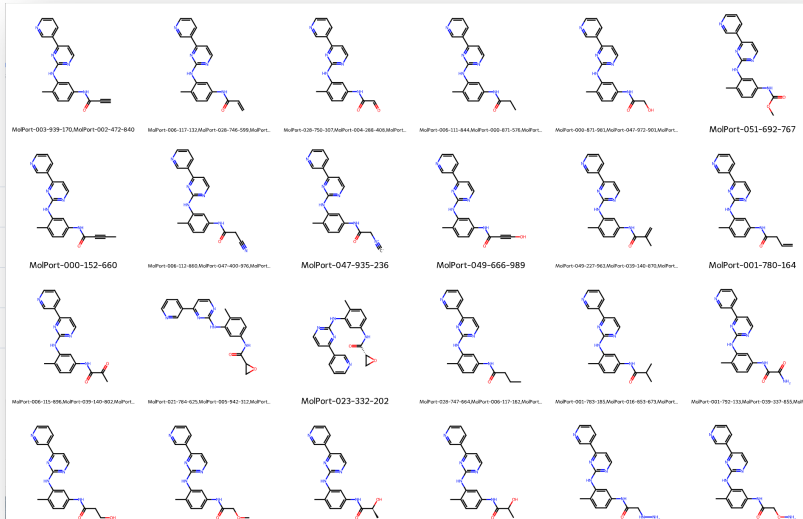
Duplicate products

Final products

Overall contribution to chemical space

Hartenfeller 51: Buchwald-Hartwig

Generated products overview



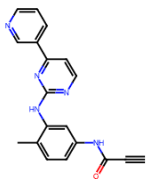
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Log Page

Hartenfeller 47: Schotten-Baumann amide

Generated products overview



MolPort-003-939-170.MolPort-002-472-840



Total building blocks	501542
Reacted building blocks	13.8% (69161/501542)
Generated products	69161
Duplicate products	<0.1% (13/69161)
Final products	100.0% (69148/69161)
Overall contribution to chemical space	51.2% (69148/135004)

**Statistics for
reaction 47**

Hartenfeller 51: Buchwald-Hartwig

Generated products overview



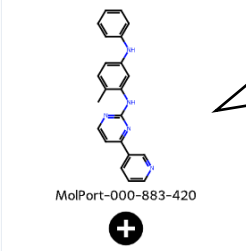
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Log Page

Hartenfeller 51: Buchwald-Hartwig

Generated products overview



Molecule **representative** of the generated compounds for reaction 51

Log Page

Total building blocks	501542
Reacted building blocks	16.2% (81340/501542)
Generated products	81340
Duplicate products	19.0% (15484/81340)
Final products	81.0% (65856/81340)
Overall contribution to chemical space	48.8% (65856/135004)

Downloads

The raw library can be downloaded below.

[↓ Building blocks/products \(SDF/SMILES\)](#)

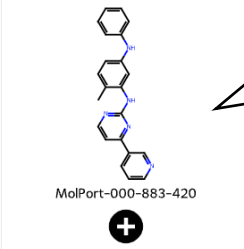
Post processing

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Next ->

Hartenfeller 51: Buchwald-Hartwig

Generated products overview



Click on the image to display a subset of the virtual library

Log Page

Total building blocks	501542
Reacted building blocks	16.2% (81340/501542)
Generated products	81340
Duplicate products	19.0% (15484/81340)
Final products	81.0% (65856/81340)
Overall contribution to chemical space	48.8% (65856/135004)

Downloads

The raw library can be downloaded below.

[↓ Building blocks/products \(SDF/SMILES\)](#)

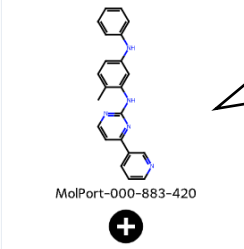
Post processing

<- Previous

Next ->

Hartenfeller 51: Buchwald-Hartwig

Generated products overview



Click on the image to display a subset of the virtual library

Total building blocks

Reacted building blocks

Generated products

Duplicate products

Final products

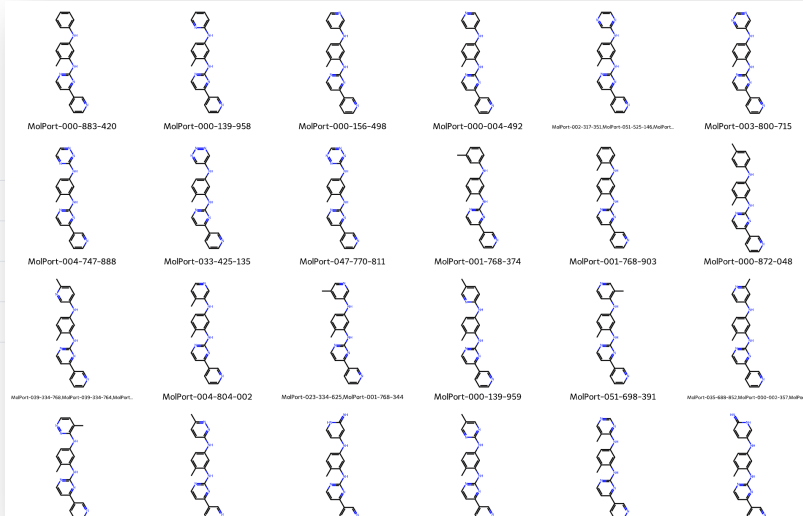
Overall contribution to chemical space

Downloads

The raw library can be downloaded below.


[Building blocks/products \(SDF/SMILES\)](#)

Post processing

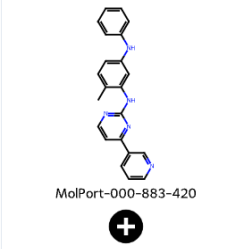



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Hartenfeller 51: Buchwald-Hartwig

Generated products overview



Total building blocks	501542
Reacted building blocks	16.2% (81340/501542)
Generated products	81340
Duplicate products	19.0% (15484/81340)
Final products	81.0% (65856/81340)
Overall contribution to chemical space	48.8% (65856/135004)

Downloads

The raw library can be downloaded below.

[↓ Building blocks/products \(SDF/SMILES\)](#)

Post processing

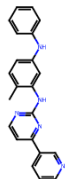
Log Page

Statistics for
reaction 51

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Generated products overview



MolPort-000-883-420



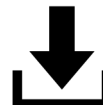
Total building blocks	501542
Reacted building blocks	16.2% (81340/501542)
Generated products	81340
Duplicate products	19.0% (15484/81340)
Final products	81.0% (65856/81340)
Overall contribution to chemical space	48.8% (65856/135004)

Downloads

The raw library can be downloaded below.

[↓ Building blocks/products \(SDF/SMILES\)](#)

**Download Virtual Library
and Building Blocks**



Post processing

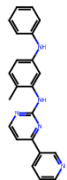
You can then perform an optional post processing step.

Log Page

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Next ->

Generated products overview



MolPort-000-883-420



Total building blocks	501542
Reacted building blocks	16.2% (81340/501542)
Generated products	81340
Duplicate products	19.0% (15484/81340)
Final products	81.0% (65856/81340)
Overall contribution to chemical space	48.8% (65856/135004)

Downloads

The raw library can be downloaded below.

[↓ Building blocks/products \(SDF/SMILES\)](#)

Post processing

You can then perform an optional post processing step.

Log Page

Press Next for post-processing

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Next ->

POST-PROCESSING OF THE RAW LIBRARY

This optional step can be used to:

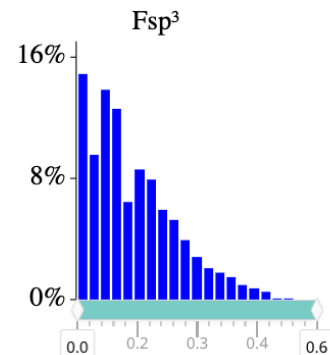
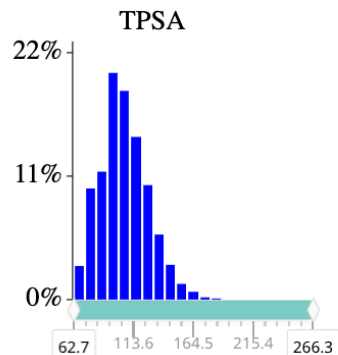
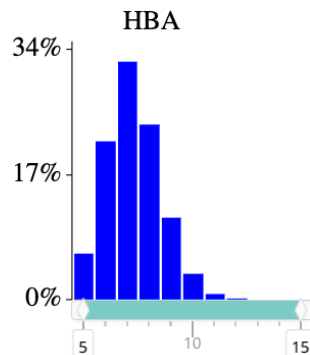
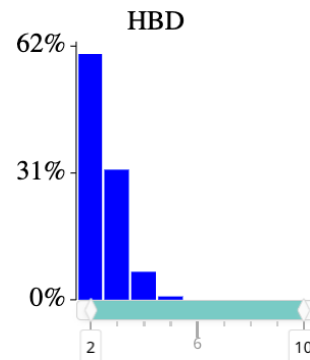
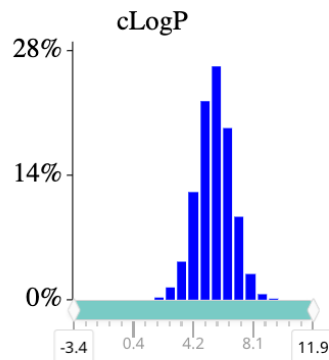
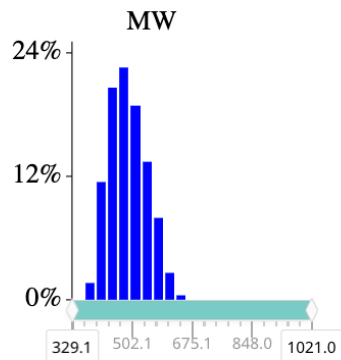
- Adjust the physico-chemical properties of the compounds,
- Reduce the number of compounds,
- Generate explicit stereoisomers and tautomers,
- Generate one 3D conformer for each molecule,
- Create mol2 files suitable for docking programs.

Post processing

On this page, the raw library can be filtered according to common medicinal chemistry descriptors.

135004/135004 (100.0%) products selected

Distributions of key molecular descriptors



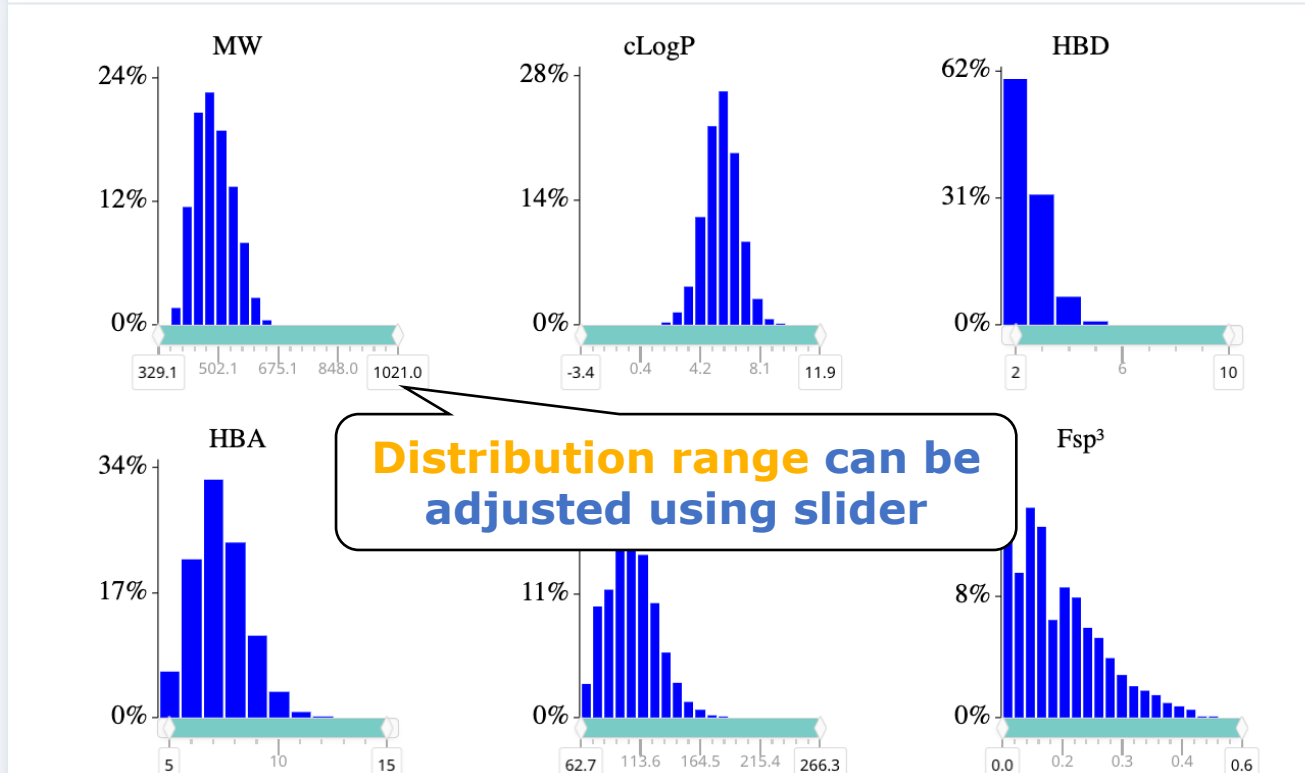
< Previous

Filter ->

Post processing

On this page, the raw library can be filtered according to common medicinal chemistry descriptors.

135004/135004 (100.0%) products selected.



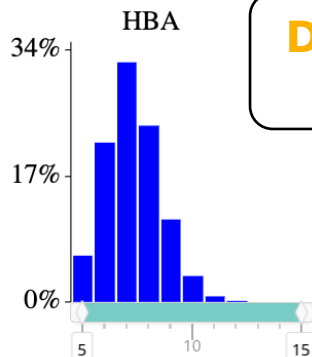
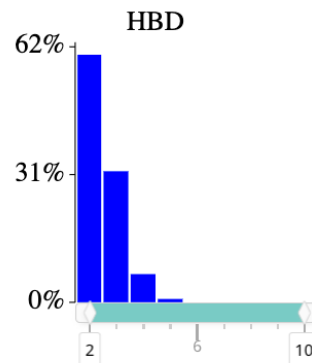
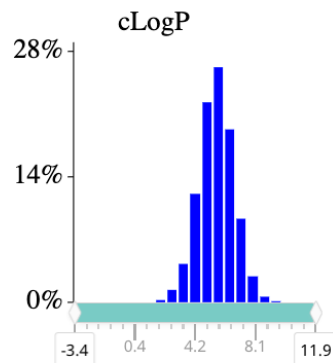
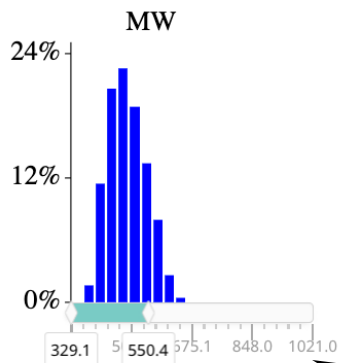
<- Previous

Filter ->

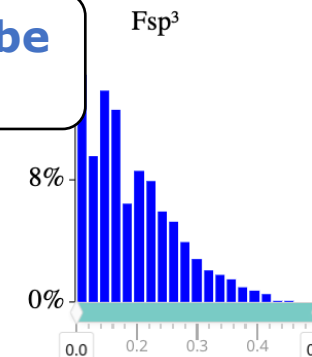
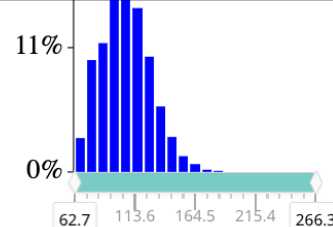
Post processing

On this page, the raw library can be filtered according to common medicinal chemistry descriptors.

115411/135004 (85.5%) products selected.



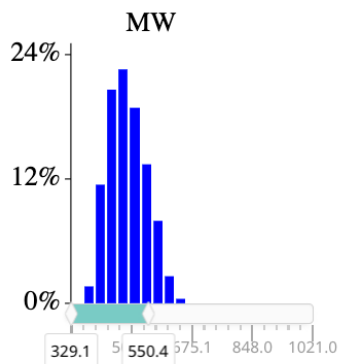
Distribution range can be adjusted using slider



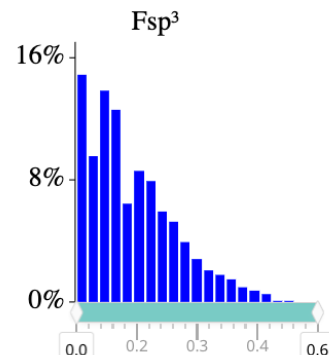
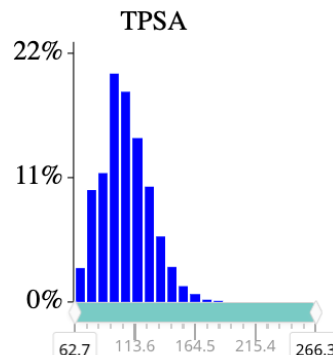
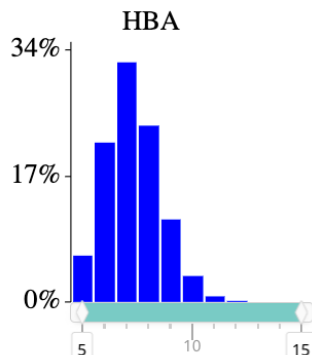
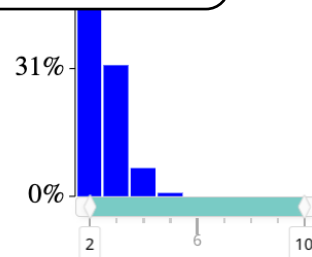
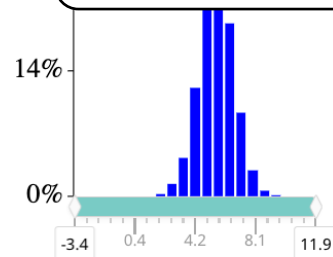
Post processing

On this page, the raw library can be filtered according to common medicinal chemistry descriptors.

115411/135004 (85.5%) products selected.



The total number of compounds is updated



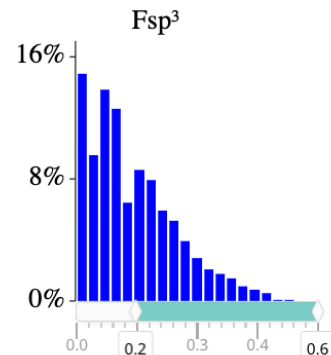
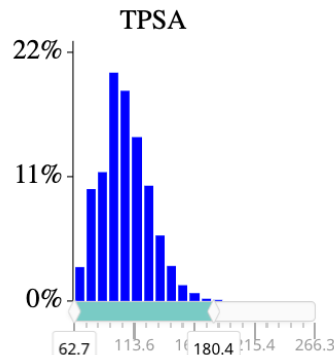
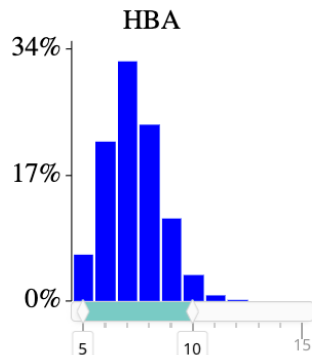
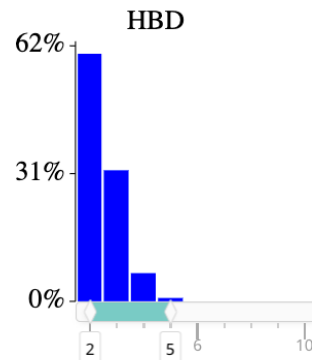
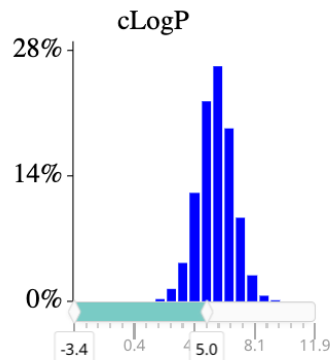
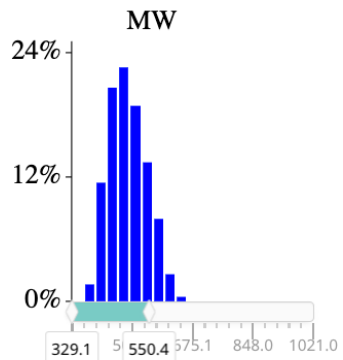
<- Previous

Filter ->

Post processing

On this page, the raw library can be filtered according to common medicinal chemistry descriptors
15002/135004 (11.1%) products

Adjust all desired descriptors



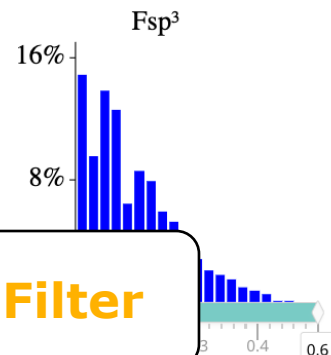
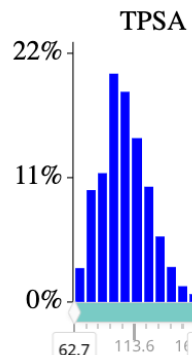
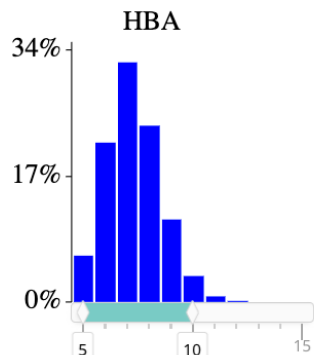
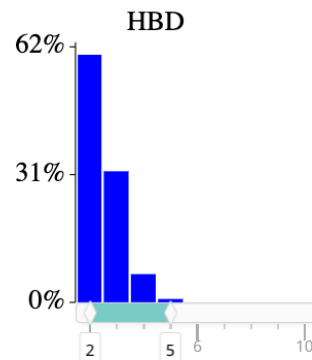
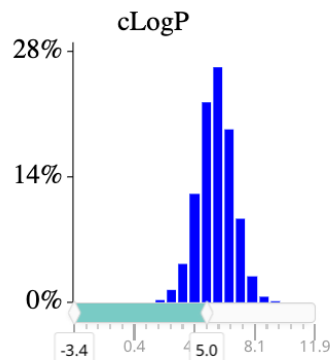
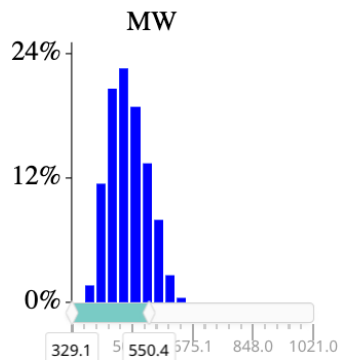
<- Previous

Filter ->

Post processing

On this page, the raw library can be filtered according to common medicinal chemistry descriptors.

15002/135004 (11.1%) products selected.



Press Filter

<- Previous

Filter ->

Filtered Library Generation

Please wait while your filtered library is generated



The time required can vary from a **few seconds** to **several minutes**, depending on the number of compounds being generated.



It takes approximately 15 seconds for this example (15,000 molecules)

Filtered library download[↓](#) Filtered building blocks/products (SDF/SMILES)

**Download Virtual Library
and corresponding
Building Blocks**



**Filtered library with optimized
physico-chemical properties**

[← Previous](#)[Generate 3D →](#)

Final 3D Library Generation

Please wait while your 3D library is generated



The time required can vary from a **few seconds** to **several minutes**, depending on the number of compounds being generated.



It takes approximately 30 seconds for this example (15,000 molecules)

Filtered library download[↓ Filtered building blocks/products \(SDF/SMILES\)](#)**Ready-to-dock 3D library download**[↓ Products \(3D SDF/MOL2\)](#)

**Download Final 3D Virtual Library
and corresponding Building Blocks**

- Explicit stereoisomers and tautomers are generated,**
- One 3D conformer of each molecule is computed,**
- A mol2 file suitable for docking programs is created.**