Freedom Space 4.0

Freedom to explore.

Freedom Space 4.0 is an ultra-large chemical space designed to facilitate your hit discovery workflows by solving the problem of synthetic accessibility. The specialty of this product is the use of Machine Learning (ML) based filters, that were trained on the reaction success data from Enamine. The latest version – Freedom Space 4.0 includes 142 billion molecules, that can be synthesized in 4-6 weeks with a high success rate.

Space Generation



- Unique space of 142 billion compounds complementary to Enamine REAL
- Available as a synthon-based and enumerated spaces

What do we offer?

• Synthon-based space

142 billion molecules

- Lead time 4-6 weeks
- Over 80% synthesis success rate

CHEM-0

Delivering Discovery

Solutions[®]

Competitive pricing



Rule of Five (Ro5) Enumerated Space

20 billion drug-like molecules

Beyond Ro5 Enumerated Space

68 billion Ro5-extended molecules

Choose the most suitable subspace according to the specifics of your project!

chem-space.com

Contact us at sales@chem-space.com

Access Options

FTP Access

Host: ftp3-rdb-fr.chem-space.com FTP with TLS user: user3 password: jG04EACC0yLAdHZM

Ro5 Space

Search for compounds from 5B subset from RO5 space on Chemspace's website (chem-space.com/search)

20 billion molecules from RO5 space can be downloaded using FTP. \checkmark

Beyond Ro5 Space

68 billion molecules from Beyond RO5 space can be downloaded using FTP. \checkmark

Synthon-based Space

The space is available for similarity search through <u>infiniSee</u> by BioSolveIT. \checkmark \checkmark

- You can search for compounds using super-structure or similarity search option through <u>Hyperspace</u> developed by Alipheron.
- Freedom Space 4.0 is available for synthon-based search via <u>RDKit library</u>. \checkmark

We also provide raw synthons and reaction files upon request to support synthon-based developments. To request the file, please contact us at sales@chem-space.com.

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Ro5 Enumerated Space

- Molecular Weight: 0-500
- Hydrogen Bond Donors: 0-5
- Hydrogen Bond Acceptors: 0-10
- LogP: ≤ 5

Beyond Ro5 Enumerated Space

(excluding Rule of 5 molecules)

- Molecular Weight: 0-800
- Hydrogen Bond Donors: 0-8
- Hydrogen Bond Acceptors: 0-15
- LogP: ≤ 6
- Rotatable Bonds: 15













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