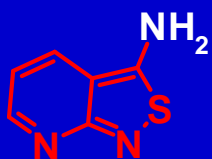
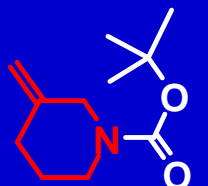


Rare and Unique Substructure™ Classes: Diversity-Oriented Building Blocks from Focus Synthesis

Focus Catalog Items shown with
Rare Substructures Highlighted



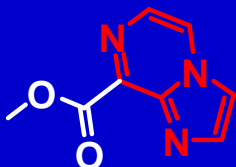
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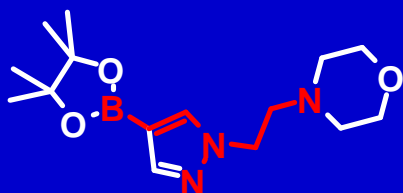
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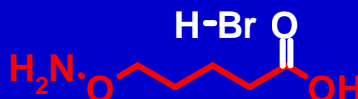
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FS000540



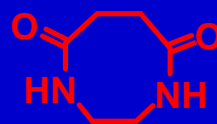
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FS000350



FS000658

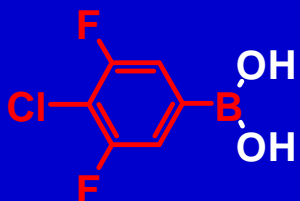


FS000768

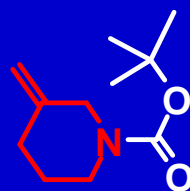
HO...OH



FS000783



FS005007



FS005021

- Building Blocks that are more than simply chemically unique: these contain drugable substructures that are rare or absent in other chemical catalogs.
- Ideal for diversity-oriented synthesis.
- Increase your chemical property space coverage.
- Strengthen your intellectual property.

Focus Synthesis LLC

Phone 1-858-485-5431

or 1-800-646-9507

Fax 1-858-485-5439

URL www.focussynthesis.com

Email focussynthesis@gmail.com

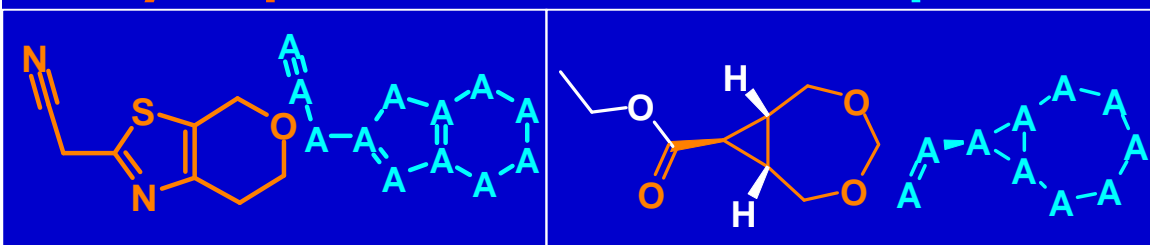


Synthon Design ServicesSM from Focus Synthesis

RubyScaffoldTM Exotic Heterocycles



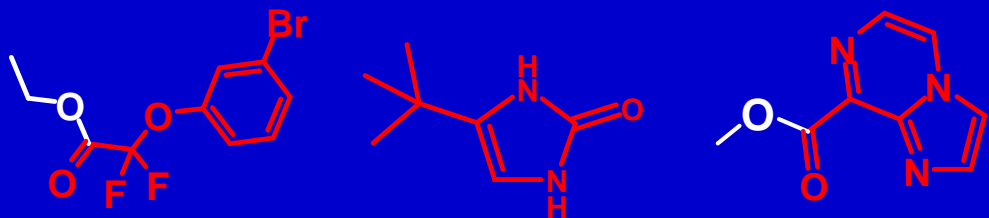
RubyShapesTM Rare Molecular Shapes



RubyRO3TM Rare "Rule of 3" Building Blocks



RubySynthonTM Ultrarare Building Blocks



RubySynthonTM building blocks contain substructures that are not found in the eMolecules[®] database of over 5 million commercial and literature-based structures (eMolecules[®] is a registered trademark of eMolecules, Inc.).

•Focus Synthesis now offers confidential precursor design services to match your specific requirements for building blocks with superior diversity and property space coverage.

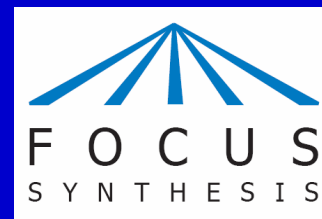
•Structural and chemical properties will be designed to fit your specifications.

•Choose from a variety of options for substructure rarity, focused on heterocyclic scaffold (RubyScaffoldsTM), overall shape (RubyShapesTM), leadlike fragment screening (RubyRO3TM), or product novelty and patentability (RubySynthonsTM), with examples at left. Design focused on occupation of

cheminformatic diversity voids (Gap FillerTM) is detailed on the opposite side of this flyer.

•Choose a 0 to 24 month period of exclusivity based on individual structures or on a common substructure.

•Define "rarity" as absence from a commercial catalog database, a database of patent and journal articles, an in-house corporate compound database, or a virtual library.

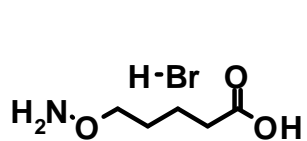


Email: focussynthesis@gmail.com

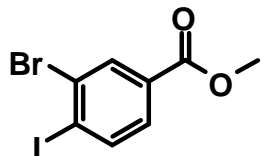
URL: www.focussynthesis.com

Phone: (858)-485-5431 (800)-646-9507

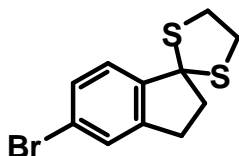
Rare Substructures In Stock from Focus Synthesis



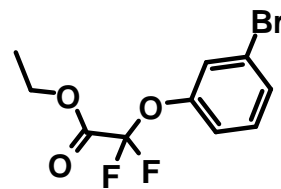
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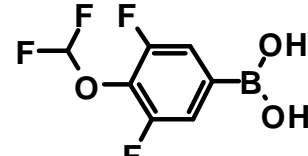
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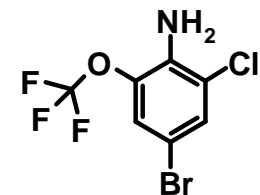
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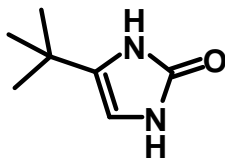
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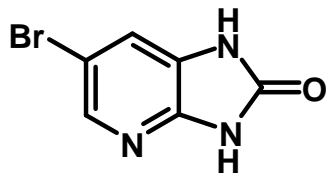
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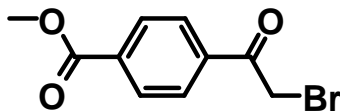
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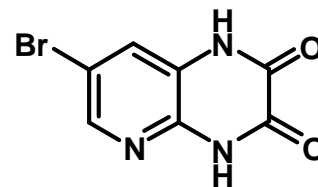
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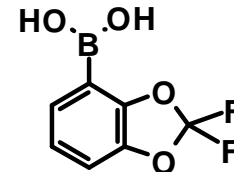
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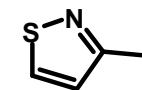
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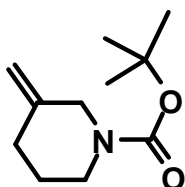
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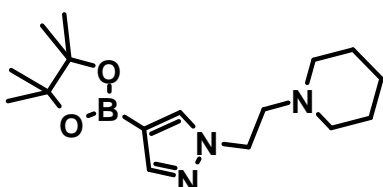
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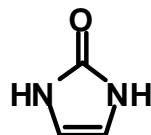
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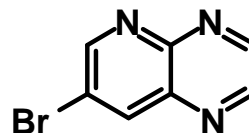
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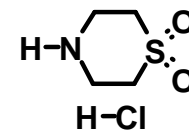
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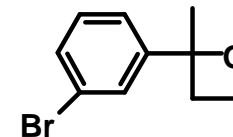
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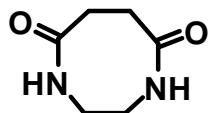
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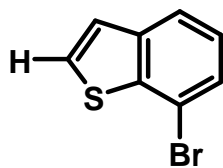
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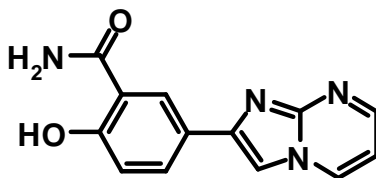
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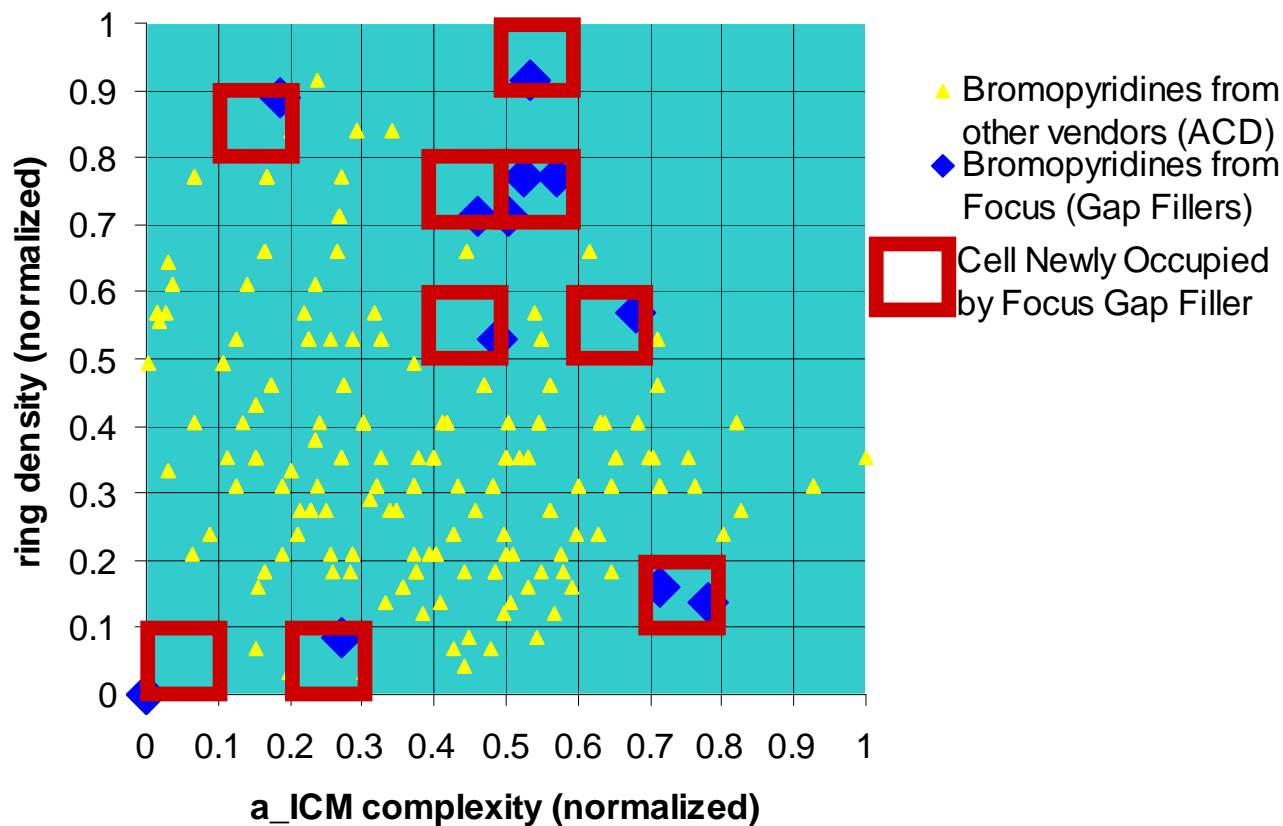


FS004001
1g\$195



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**Bromopyridines from ACD and Gap Fillers from Focus.
Complexity versus Ring Density. Cell-Based Diversity Metrics.**



Cheminformatic Gap Fillers™ are rationally designed building blocks that occupy diversity voids in property space for commercial compounds from other vendors. They are ideal for optimizing diversity and thoroughness of coverage in universal and focused libraries. In addition to catalog items, Gap Fillers can also be designed on a proprietary basis to meet your specific criteria. A variety of 2D, 3D, and physicochemical parameters can be used.

Example in figure: Twelve Focus Synthesis bromopyridines (blue diamonds) were designed to occupy 9 cells (open red squares) left empty by 466 bromopyridines from other vendors' catalogs (yellow triangles). FW: <310. Parameters: Ring Density = number of rings ÷ total number of atoms. a_ICM is a complexity metric related to the variety of atom types in the molecule. Parameters were calculated using MOE software (Chemical Computing Group).

Focus Gap Filler Examples (complexity, ring density metrics):

