

## Building Blocks

Life Chemicals performs the design and synthesis of advanced chemical building blocks: small molecules (scaffolds, chemical intermediates, and fine reagents) bearing various reactive functional groups that allow introducing certain structural motifs into the desired final products.

Their structures are mostly based on rare chemotypes with favorable physicochemical parameters, thus being excellent decorators in the combinatorial synthesis of compound libraries and promising reagents for medicinal chemistry and drug design.

Our proprietary collection currently comprises more than **62,000** building blocks, including **11,000** in-stock compounds in multigram quantities. Over **50,000** tangible molecules can be synthesized within a 3-6 week timeframe, employing our in-house validated synthetic procedures. Compound re-synthesis and scale-up (up to 50 kg) are provided on request.

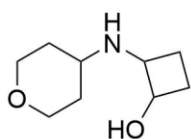
All our building blocks undergo **quality control** to elucidate their chemical structures and guarantee their purity of > 95 %, confirmed with 400MHz NMR and/or LCMS.

Explore and purchase our building blocks via our [online shop](#)! There you can check compound availability, current prices and lead time information. The compounds can be searched by CAS, catalog number, substructure or similarity.

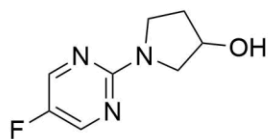
Feel free to contact us directly at [orders@lifechemicals.com](mailto:orders@lifechemicals.com) to get additional information, discuss your specific requirements, request our [analogue search](#) service or place a purchase order.

Examples of offered chemical classes include:

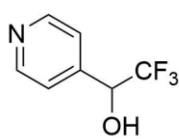
### *Alcohols, thiols*



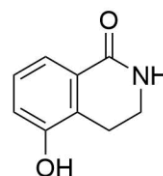
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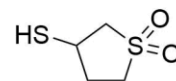
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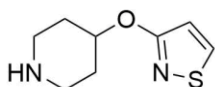


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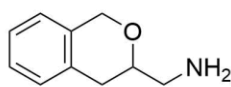


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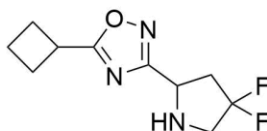
### *Amines: primary and secondary*



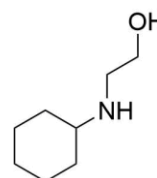
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F2147-9881



F1909-1331

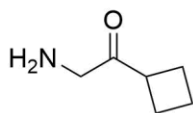


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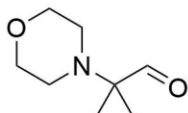


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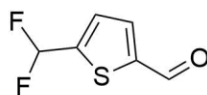
*Aldehydes, ketones*



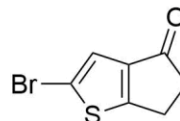
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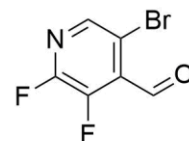
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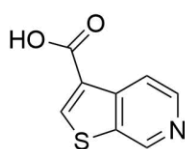


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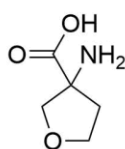


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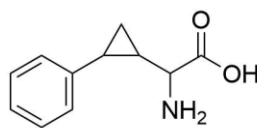
*Carboxylic acids, amino acids, boronic acids and their esters*



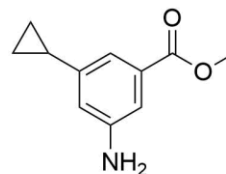
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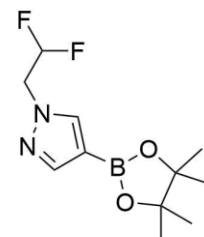
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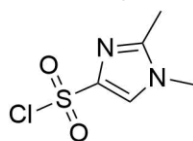


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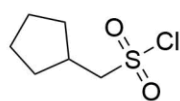


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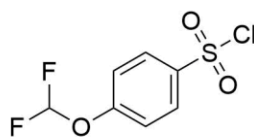
*Sulphonyl and acyl halides*



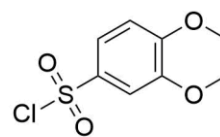
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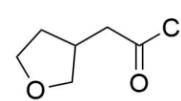
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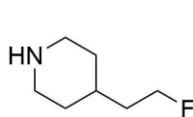


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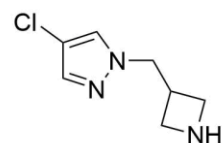


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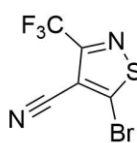
*Alkyl and aryl halides, fluorinated compounds*



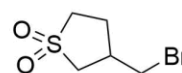
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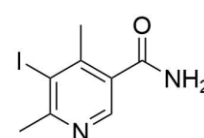
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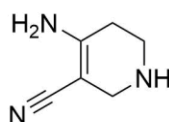


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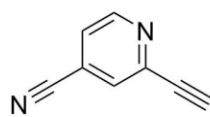


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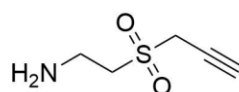
*Alkynes, nitriles, isocyanates, azides*



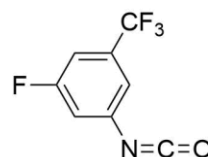
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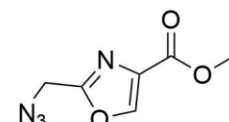
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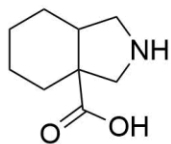


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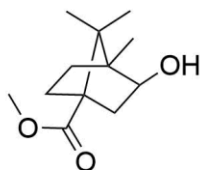


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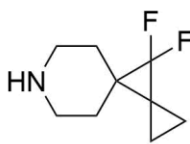
***Bicyclic compounds: spiro, fused, bridged***



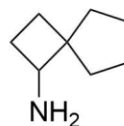
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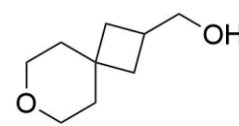
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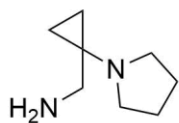


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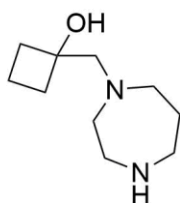


F2147-3877

***Small carbo- and hetero-cycles: cyclopropanes, cyclobutanes, epoxides, azetidines, oxetanes***



F2147-4819



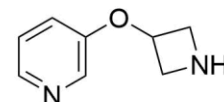
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F1905-0041

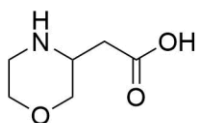


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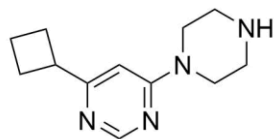


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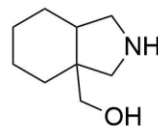
***Functionalized saturated heterocycles: piperidines, morpholines, piperazines, pyrrolidines, tetrahydrofurans, tetrahydropyrans, etc.***



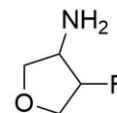
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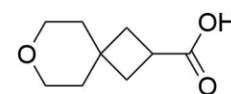
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F1911-4945

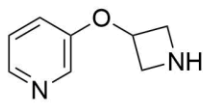


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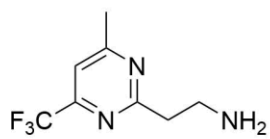


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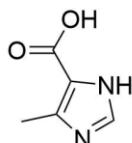
***Functionalized aromatic heterocycles: pyridines, diazines (pyrazines, pyrimidines, pyridazine), pyrazoles, azoles (imidazoles, oxazoles, thiazoles, triazoles), etc.***



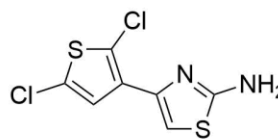
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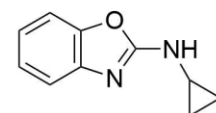
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F0301-0078



F6662-2006