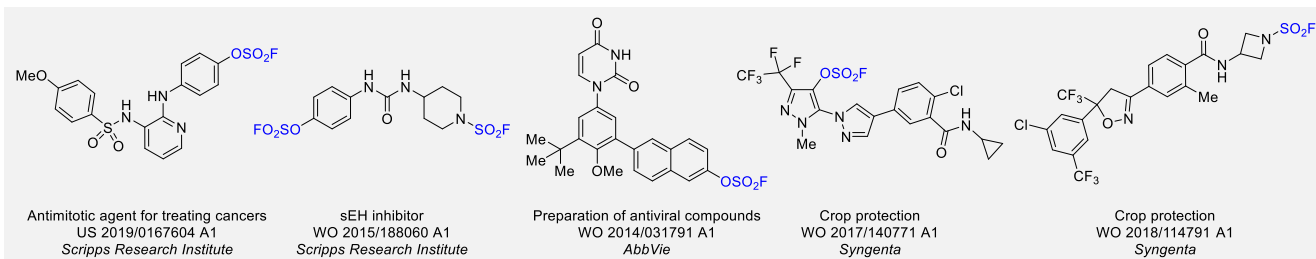


Fluorosulfates and Sulfamoyl Fluorides for Drug Design

Introduction

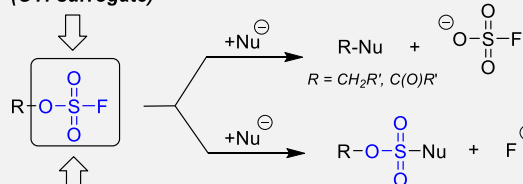
Aryl fluorosulfates and sulfamoyl fluorides are widely used in chemical biology, medicinal chemistry and agrochemistry. The former exhibit chemoselective reactivity with the side chains of tyrosine, lysine, serine and histidine in the proteins, and can be used to target non-enzymes as well as enzymes. Depending on the nature of the substituent, the $-\text{OSO}_2\text{F}$ unit can be a good leaving group or a robust connector. The fluorosulfates are quite stable toward hydrolysis under neutral or acidic conditions. The *N*-disubstituted sulfamoyl fluorides are stable toward hydrolysis under basic condition, inert toward a wide range of nucleophiles and dramatically more robust than analogous chlorides.¹⁻⁶ In this context, *Enamine* offers a library of unique aryl fluorosulfates and sulfamoyl fluorides for drug design.



Properties of ROSO_2F and $\text{R}_2\text{NSO}_2\text{F}$

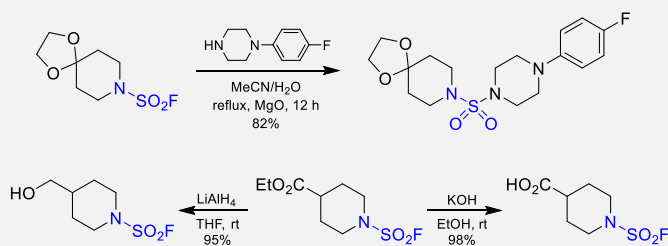
Dual reactivity of fluorosulfates

Leaving Group
(OTf surrogate)

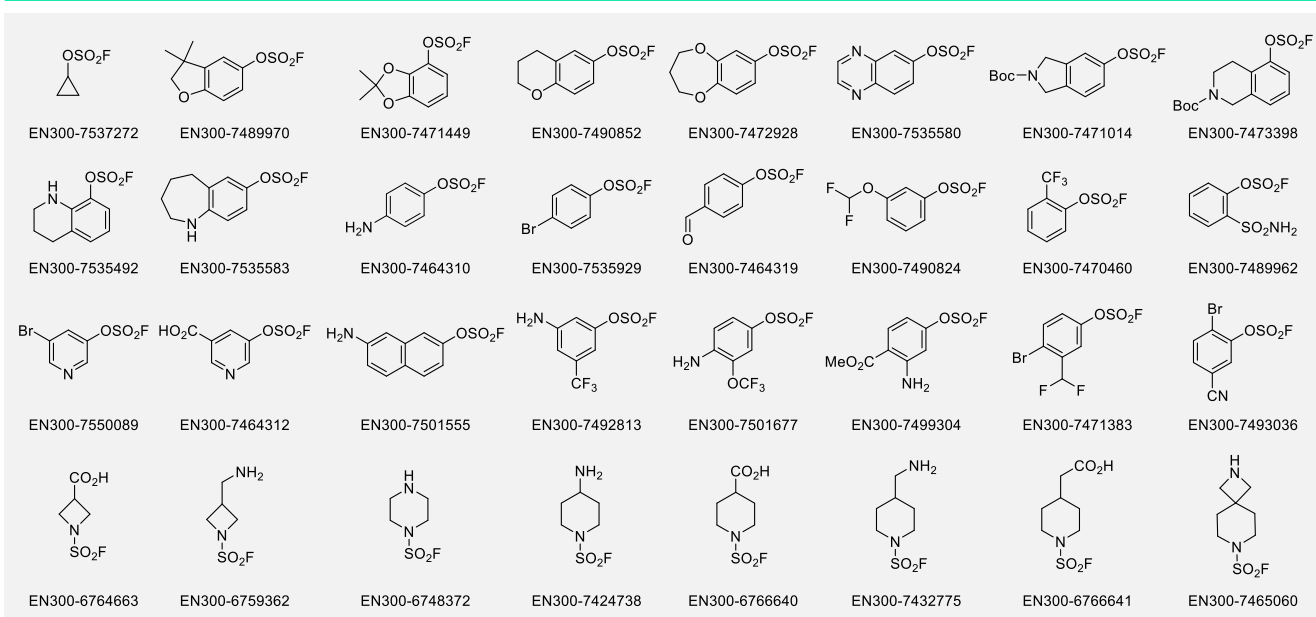


Click Connection

Reactivity and stability of the sulfamoyl fluorides



We offer: >100 unique fluorosulfates and sulfamoyl fluorides in gram amounts in stock.



References

掲載構造は一部抜粋です。全データをご希望の場合はSD Fileにてご提供致しますのでご連絡下さい。

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