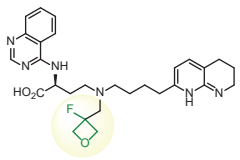
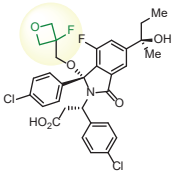
Fluorooxetanes for Medicinal Chemistry

Introduction

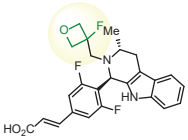
Due to their small size and low polarity, oxetanes have become a widespread motif in modern drug discovery.[1] Fluorination of oxetanes can further reduce their lipophilicity[2] and alter the electronic properties of neighboring groups, impacting pK_a transition values[3] and the ability to form donor-acceptor interactions with protein targets.[4] Explore Enamine's collection of 3-fluoro- and 3,3-difluorooxetane building blocks to fine-tune the desired properties of pharmacological molecules.



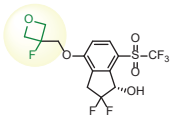
αvβ5 integrin inhibitor, treatment of fibrosis
WO 2024/155965
Pliant Ther



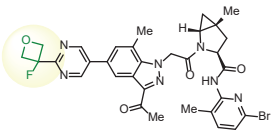
MDM2 antagonist, anticancer
WO 2022/185260
Otsuka Pharm



estrogen receptor degrader inhibitor, anticancer
WO 2021/127047
Recurium



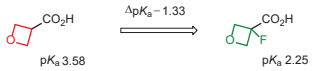
HIF-2α antagonist, antiinflammation
Med. Chem. Res. **2023**, *32*, 1510 and WO2019191227
Peloton Ther



complement factod D inhibitor
WO 2024/137329
Alexion Pharm

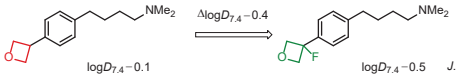
Case studies

ACIDITY



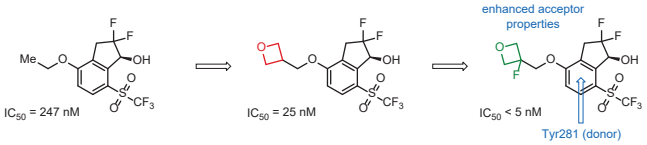
J. Fluor. Chem. **2024**, *278*, 110316

LIPOPHILICITY



J. Med. Chem. **2010**, *53*, 3227

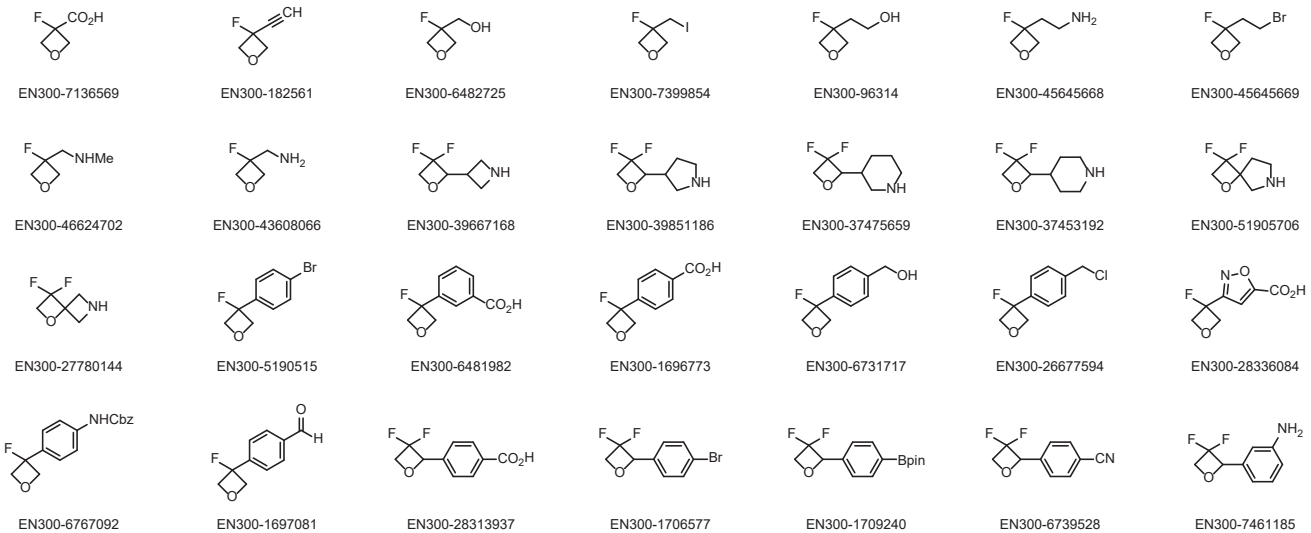
DONOR-ACCEPTOR INTERACTIONS



hypoxia inducible factor α antagonist development, against carcinoma

Med. Chem. Res. **2023**, *32*, 1510

We offer: over 25 fluorooxetanes from stock on 5-10 gram scale.



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EN300-27780144 | EN300-5190515 | EN300-6481982 | EN300-1696773 | EN300-6731717 | EN300-26677594 | EN300-28336084
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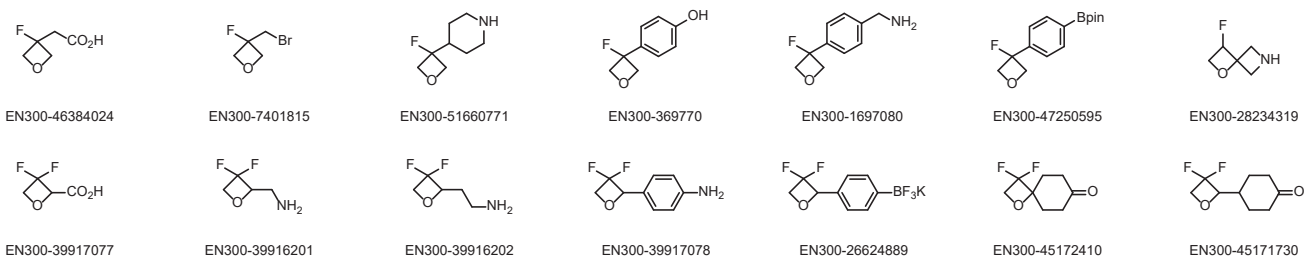

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EN300-39917077 | EN300-39916201 | EN300-39916202 | EN300-39917078 | EN300-26624889 | EN300-45172410 | EN300-45171730

References

1. J. Rojas and J. Bull. *J. Med. Chem.* **2023**, *66*, 12697.
2. G. Wuitschik et al. *J. Med. Chem.* **2010**, *53*, 3227.
3. O. Pidvyshennyi et al. *J. Fluor. Chem.* **2024**, *278*, 110316.
4. P. Wehn et al. *Med. Chem. Res.* **2023**, *32*, 1510.

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