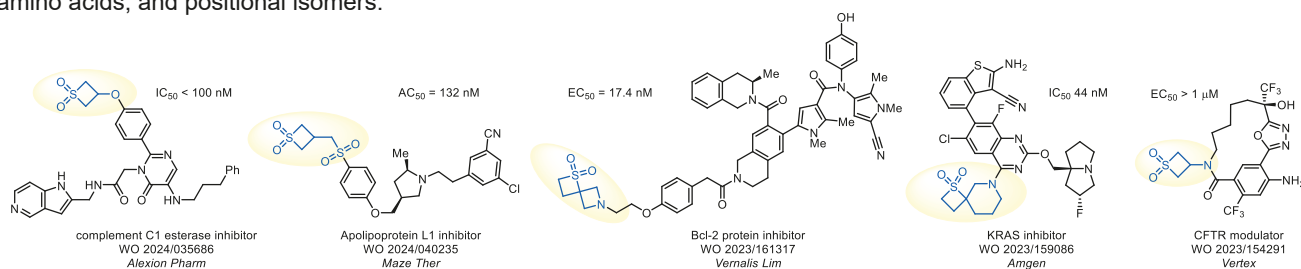


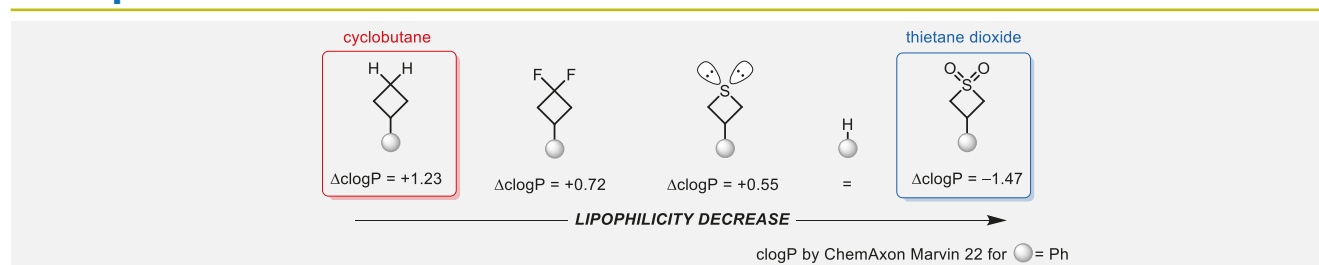
# Thietane Dioxide

## Introduction

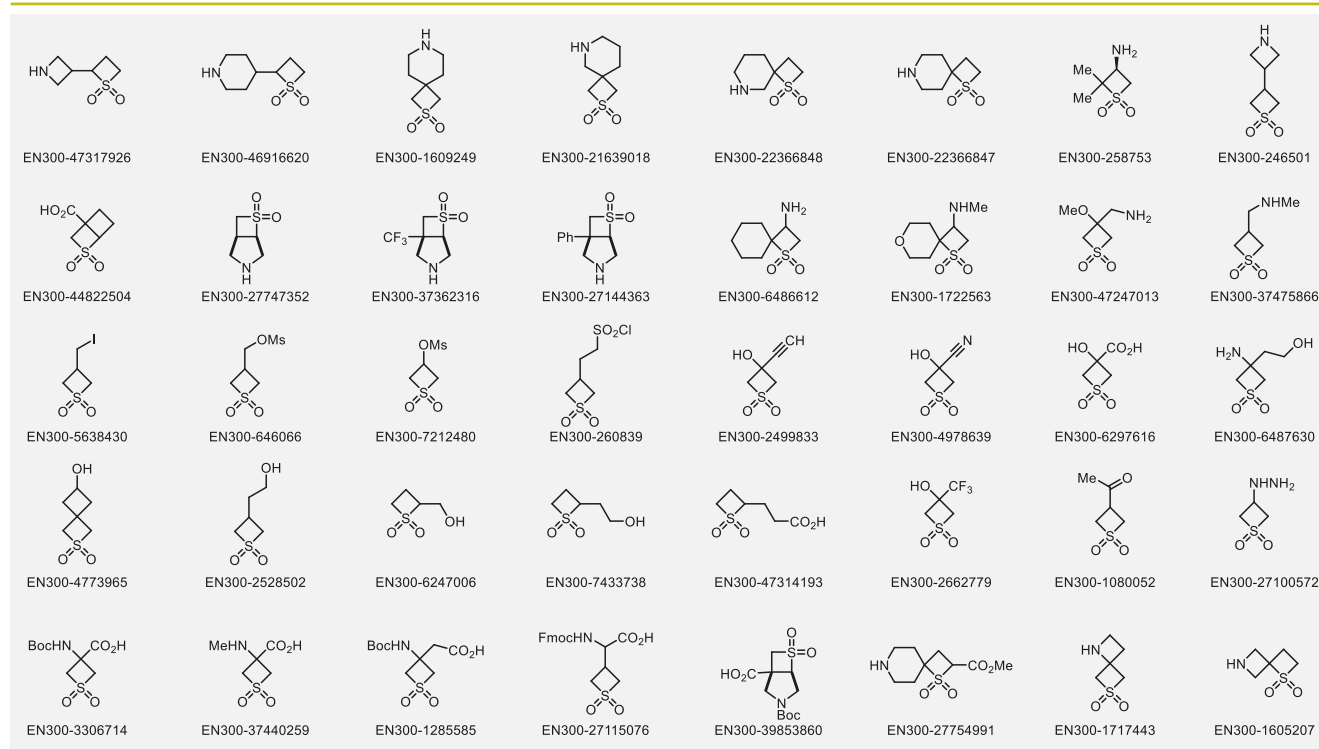
Thietane dioxide, the smallest cyclic sulfone, shares notable similarities with cyclobutane.<sup>1,2</sup> Compared to other four-membered ring structures, thietane dioxide reduces lipophilicity while only slightly increasing molecular volume. A recent study demonstrated that replacing a peptide bond with thietane dioxide led to significant improvements in both substance metabolic stability and target selectivity.<sup>3</sup> Enamine offers a diverse range of thietane dioxides, including promising spirocycles, amino acids, and positional isomers.



## Concept



**We offer:** over 100 thietane dioxides from stock on 5-10 gram scale.



## References

1. K. Francisco et al. *Eur. J. Med. Chem.* **2021**, 218, 113399.
2. T. Ni et al. *Eur. J. Med. Chem.* **2024**, 264, 116026.

3. H. Wang et al. *Bioorg. Chem.* **2023**, 138, 106626.



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