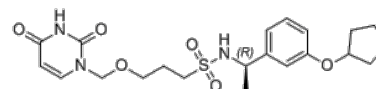


Product Name : TAS-114
Cat. No. : PC-63498
CAS No. : 1198221-21-4
Molecular Formula : C₂₁H₂₉N₃O₆S
Molecular Weight : 451.538
Target : Nucleoside Antimetabolite/Analog
Solubility : 10 mM in DMSO



Biological Activity

TAS-114 is a first-in-class, potent, dual **dUTPase/DPD** (dihydropyrimidine dehydrogenase) inhibitor with K_i of 0.13/2.14 μM, respectively.

TAS-114 competitively inhibits dUTPase in the dUTP binding step, selectively inhibits the hydrolysis of dUTP to dUMP in cancer cells, significantly enhances cytotoxicity of fluoropyrimidines.

TAS-114 has moderate and reversible inhibitory activity on dihydropyrimidine dehydrogenase (DPD), a catabolizing enzyme of 5-FU; increases the bioavailability of 5-FU when co-administered with capecitabine in mice, significantly improves the therapeutic efficacy of capecitabine in vivo.

References

Yano W, et al. *Mol Cancer Ther.* 2018 May 10. pii: molcanther.0911.2017.

Saito K, et al. *Cancer Chemother Pharmacol.* 2014 Mar;73(3):577-83.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com