Steroid sulfatase/17β-HSD1-IN-4

Cat. No.: HY-151202

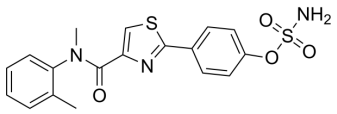
Molecular Formula: $C_{18}H_{17}N_3O_4S_2$

Molecular Weight: 403.48

Target: Steroid Sulfatase

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Steroid sulfatase/17β-HSD1-IN-4 (compound 37) is a dual inhibitor of steroid sulfatase (STS) and 17β-hydroxysteroid dehydrogenase type 1 (17β HSD1). Steroid sulfatase/17β-HSD1-IN-4 irreversibly inhibits hSTS activity with anIC_{50} value of 63 nM. Steroid sulfatase/17β-HSD1-IN-4 can be used in the study of endometriosis and other estrogen-dependent diseases[1].
IC_{50} & Target	IC50: 63 nM (hSTS)[1].
In Vitro	Steroid sulfatase/17β-HSD1-IN-4 (compound 37) (0-1100 nM, 24 h) inhibits human steroid sulfatase (hSTS) with an IC_{50} value of 63 nM and acts on irreversible inhibition of hSTS with an IC_{50} value of 60 nM in T47D human breast cancer cells[1]. Steroid sulfatase/17β-HSD1-IN-4 (compound 37) (20 μM, 48 h) inhibits HEK-293 cells growth by 15.1% at a concentration of 20 μM with low cytotoxicity[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Abdelrahman Mohamed, et al. Dual Targeting of Steroid Sulfatase and 17β-Hydroxysteroid Dehydrogenase Type 1 by a Novel Drug-Prodrug Approach: A Potential Therapeutic Option for the Treatment of Endometriosis. J Med Chem. 2022 Aug 22.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA