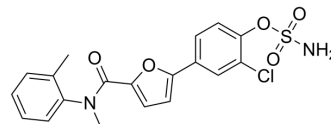


Steroid sulfatase-IN-4

Cat. No.:	HY-151200
Molecular Formula:	C ₁₉ H ₁₇ ClN ₂ O ₅ S
Molecular Weight:	420.87
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-IN-4 (Compound 16) is an irreversible steroid sulfatase (STS) inhibitor with an IC ₅₀ of 25 nM against human STS. Steroid sulfatase-IN-4 can be used for the research of endometriosis ^[1] .
IC ₅₀ & Target	IC ₅₀ : 25 nM (hSTS in cellular assays) ^[1]
In Vitro	Steroid sulfatase-IN-4 (Compound 16) shows good metabolic stability in human hepatic S9 fraction and low intrinsic clearance Clint (<30 μL/min/mg protein) ^[1] . Steroid sulfatase-IN-4 (20 μM; 24 h) shows cytotoxicity for HEK-293 cells (53.6% inhibition) ^[1] . Steroid sulfatase-IN-4 (1 μM) shows 25% inhibition against human 17β-hydroxysteroid dehydrogenase type 1 (17β-HSD1) in a cell-free assay ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mohamed A, 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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