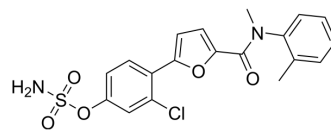


Steroid sulfatase/17β-HSD1-IN-3

Cat. No.:	HY-151201
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/17β-HSD1-IN-3 (compound 19) is a dual inhibitor of steroid sulfatase (STS) and 17β-hydroxysteroid dehydrogenase type 1 (17β HSD1). Steroid sulfatase/17β-HSD1-IN-3 irreversibly inhibits hSTS activity with an IC ₅₀ value of 27 nM. Steroid sulfatase/17β-HSD1-IN-3 can be used in the study of endometriosis and other estrogen-dependent diseases ^[1] .
IC₅₀ & Target	IC ₅₀ : 27 nM (hSTS) ^[1] .
In Vitro	Steroid sulfatase/17β-HSD1-IN-3 (compound 19) (0-1100 nM, 24 h) inhibits human steroid sulfatase (hSTS) with an IC ₅₀ value of 27 nM and acts on irreversible inhibition of hSTS with an IC ₅₀ value of 29 nM in T47D human breast cancer cells ^[1] . Steroid sulfatase/17β-HSD1-IN-3 (compound 19) (20 μM, 48 h) inhibits HEK-293 cells growth by 30% 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.

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

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