Product Data Sheet

Steroid sulfatase/17 β -HSD1-IN-5

Cat. No.:	HY-155010
Molecular Formula:	C ₂₁ H ₂₂ N ₂ O ₆ S
Molecular Weight:	430.47
Target:	Steroid Sulfatase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICA		
Description	Steroid sulfatase/17β-HSD1-IN- of 7β-hydroxysteroid dehydrog HSD1-IN-5 can be used for meta	5 is a irreversible inhibitor of steroid sulfatase (STS) .Steroid sulfatase/17β-HSD1-IN-5 is a reversible and selective in enase type1 (17β-HSD1), with IC ₅₀ s of 43 nM and 6.2μM for 17β-HSD1 and 17β-HSD2, respectively. Steroid sulfatase/ abolic disease (especially for endometriosis) research ^[1] .
IC₅₀ & Target	IC50: 43 nM (17β-HSD 1) ^[1] IC50: 6.3 μM (17β-HSD 2) ^[1] IC50: 0.4 μM (Steroid sulfatase) []]	1]
In Vitro	Steroid sulfatase/17β-HSD1-IN- MCE has not independently cor Cell Viability Assay ^[1] Cell Line: Concentration: Incubation Time:	5 (Compound 5) (0-40 μM⊠48-72 hour) has no effect on cell viability up to 31 μM (HEK293) and 23 μM (HepG2), respe firmed the accuracy of these methods. They are for reference only. HEK293 and HepG2 cells 0-30 μM 48-72 hours
	Result:	Had no effect on cell viability up to 31 μM (HEK293) and 23 μM (HepG2), respectively.
In Vivo	Steroid sulfatase/17β-HSD1-IN- MCE has not independently cor	5 (Compound 5) (50 mg.kg for s.c.;single dose) shows a T _{1/2z} of 3.82 h and C _{max obs} of 2824 nM ^[1] . Ifirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Female C57BL/6 mice (Pharmacokinetic assay) ^[1]
	Dosage:	50 mg/kg
	Administration:	Subcutaneous injection (s.c.), single dose
	Result:	Pharmacokinetic parameters for Steroid sulfatase/17 β -HSD1-IN-5 (Compound 5) in female C57BL/6 mice $^{[1]}$

F	Route	Dose (mg/kg)	C _{max obs} (nM)	C ₂₄ (nM)	T _{1/2z} (h)	AUC ₀₋₂₄ (ng•h/mL)
	s.c.	50	2824	797	3.82	11600

REFERENCES

[1]. Mohamed Salah, et.al. Potent Dual Inhibitors of Steroid Sulfatase and 17β-Hydroxysteroid Dehydrogenase Type 1 with a Suitable Pharmacokinetic Profile for I Proof-of-Principle Studies in an Endometriosis Mouse Model. Journal of Medicinal Chemistry 2023 66 (13), 8975-8992.

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

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