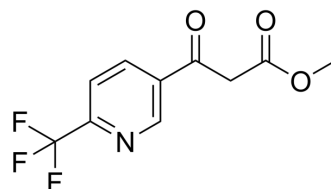


11 β -HSD1-IN-8

Cat. No.:	HY-W129359		
CAS No.:	386704-15-0		
Molecular Formula:	C ₁₀ H ₈ F ₃ NO ₃		
Molecular Weight:	247.17		
Target:	11 β -HSD		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (404.58 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.0458 mL	20.2290 mL	40.4580 mL
		5 mM	0.8092 mL	4.0458 mL	8.0916 mL
10 mM		0.4046 mL	2.0229 mL	4.0458 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: \geq 2.5 mg/mL (10.11 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.5 mg/mL (10.11 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	11 β -HSD1-IN-8 (compound c6a) is a 11 β -HSD1 inhibitor with an IC ₅₀ value of 2.3 μ M for human 11 β -HSD1. 11 β -HSD1-IN-8 can be used for the research of diabetes and cognitive decline ^[1] .
IC₅₀ & Target	IC ₅₀ : 2.3 μ M (human 11 β -HSD) ^[1]
In Vitro	11 β -HSD1-IN-8 (0-50 μ M) inhibits human and rat 11 β -HSD1 with IC ₅₀ values of 2.3 μ M and \approx 50 μ M, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Naredo-Gonzalez G, et al. Non-invasive in vivo assessment of 11β -hydroxysteroid dehydrogenase type 1 activity by ^{19}F -Magnetic Resonance Spectroscopy. Sci Rep. 2022 Sep 29;12(1):16268.

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

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