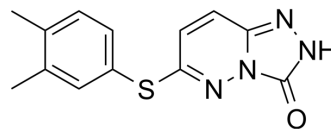


Carboxylesterase-IN-2

Cat. No.:	HY-142688		
CAS No.:	2764748-88-9		
Molecular Formula:	C ₁₃ H ₁₂ N ₄ OS		
Molecular Weight:	272.33		
Target:	Wnt		
Pathway:	Stem Cell/Wnt		
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 : 50 mg/mL (183.60 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.6720 mL	18.3601 mL	36.7202 mL
	5 mM	0.7344 mL	3.6720 mL	7.3440 mL
	10 mM	0.3672 mL	1.8360 mL	3.6720 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Carboxylesterase-IN-2 (compound 4u) is a potent inhibitor of Carboxylesterase Notum with an IC₅₀ less than or equal to 10 nM. Notum is a negative regulator of Wnt signaling acting through the hydrolysis of a palmitoleoylate ester, which is required for Wnt activity. Carboxylesterase-IN-2 has the potential for the research of cancer disease^[1].

REFERENCES

[1]. Steadman D, et al. Virtual Screening Directly Identifies New Fragment-Sized Inhibitors of Carboxylesterase Notum with Nanomolar Activity. *J Med Chem.* 2022;65(1):562-578.

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

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