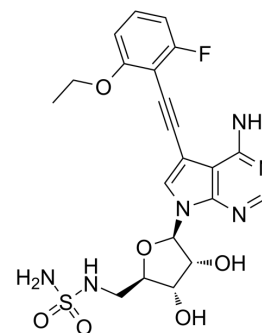


TAS4464

Cat. No.:	HY-128586		
CAS No.:	1848959-10-3		
Molecular Formula:	C ₂₁ H ₂₃ FN ₆ O ₆ S		
Molecular Weight:	506.51		
Target:	NEDD8-activating Enzyme		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 40 mg/mL (78.97 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.9743 mL	9.8715 mL	19.7429 mL
		5 mM		0.3949 mL	1.9743 mL	3.9486 mL
10 mM			0.1974 mL	0.9871 mL	1.9743 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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2 mg/mL (3.95 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2 mg/mL (3.95 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	TAS4464 is a highly potent and selective inhibitor of NEDD8 activating enzyme (NAE), with an IC ₅₀ of 0.955 nM ^[1] .
IC₅₀ & Target	IC ₅₀ 0.955 nM (NAE) ^[1]
In Vitro	TAS4464 treatment inhibits cullin neddylation and subsequently induces the accumulation of CRL substrates such as CDT1, p27, and phosphorylates IκBα in 47 human cancer cell lines. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Proc Natl Acad Sci U S A. 2022 Feb 8;119(6):e2111737119.
- Viruses. 2021 Aug 14;13(8):1610.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Yoshimura C, et al. TAS4464, a highly potent and selective inhibitor of NEDD8 activating enzyme, suppresses neddylation and shows antitumor activity in diverse cancer models. Mol Cancer Ther. 2019 May 15.

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

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