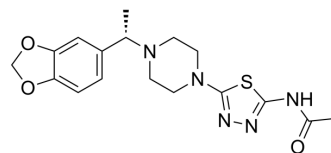


ASN90

Cat. No.:	HY-156586		
CAS No.:	1884154-02-2		
Molecular Formula:	C ₁₇ H ₂₁ N ₅ O ₃ S		
Molecular Weight:	375.45		
Target:	Tau Protein		
Pathway:	Neuronal Signaling		
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 (266.35 mM; ultrasonic and warming and heat to 80°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6635 mL	13.3174 mL	26.6347 mL
	5 mM	0.5327 mL	2.6635 mL	5.3269 mL
	10 mM	0.2663 mL	1.3317 mL	2.6635 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (6.66 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (6.66 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (6.66 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

ASN90 is a specific and orally active O-GlcNAcase (OGA) enzyme inhibitor with IC₅₀ value of 10.2 nM. ASN90 can be used for the research of neurodegenerative diseases, such as tauopathies and α-synucleinopathies^[1].

REFERENCES

[1]. Permanne B, et al. O-GlcNAcase Inhibitor ASN90 is a Multimodal Drug Candidate for Tau and α -Synuclein Proteinopathies. ACS Chem Neurosci. 2022 Apr 20;13(8):1296-1314.

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

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