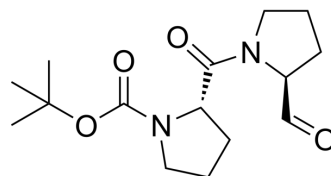


Prolyl Endopeptidase Inhibitor 1

Cat. No.:	HY-113951
CAS No.:	86925-97-5
Molecular Formula:	C ₁₅ H ₂₄ N ₂ O ₄
Molecular Weight:	296.36
Target:	Prolyl Endopeptidase (PREP)
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (337.43 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.3743 mL	16.8714 mL	33.7427 mL
		5 mM	0.6749 mL	3.3743 mL	6.7485 mL
	10 mM	0.3374 mL	1.6871 mL	3.3743 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.44 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.44 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.44 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Prolyl Endopeptidase Inhibitor 1 (Boc-Pro-prolinal) is a potent prolyl endopeptidase (PEP; PE) inhibitor, with a K _i value of 15 nM. Prolyl Endopeptidase Inhibitor 1 has anti-amnesic effect ^[1] .
IC ₅₀ & Target	K _i : 15 nM (prolyl endopeptidase) ^[1]
In Vitro	Prolyl Endopeptidase Inhibitor 1 (Boc-Pro-prolinal) strongly inhibits the mammalian prolyl endopeptidase with a K _i value of nM order, while the K _i value for the microbial enzyme is only of microM order (K _i =3.2 μM for Flavobacterium) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Yoshimoto T, et al. Specific inhibitors for prolyl endopeptidase and their anti-amnesic effect. J Pharmacobiodyn. 1987 Dec;10(12):730-5.
- [2]. Yoshimoto T, et al. Comparison of inhibitory effects of prolyl-containing peptide derivatives on prolyl endopeptidases from bovine brain and Flavobacterium. J Biochem. 1985 Oct;98(4):975-9.
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Caution: Product has not been fully validated for medical applications. For research use only.

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