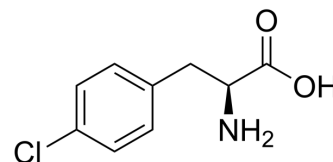


4-Chloro-L-phenylalanine

Cat. No.:	HY-W019599		
CAS No.:	14173-39-8		
Molecular Formula:	C ₉ H ₉ ClNO ₂		
Molecular Weight:	199.63		
Target:	5-HT Receptor; Tryptophan Hydroxylase		
Pathway:	GPCR/G Protein; Neuronal Signaling; 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

H₂O : 12.5 mg/mL (62.62 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.0093 mL	25.0463 mL	50.0927 mL
	5 mM	1.0019 mL	5.0093 mL	10.0185 mL
	10 mM	0.5009 mL	2.5046 mL	5.0093 mL

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

BIOLOGICAL ACTIVITY

Description

4-Chloro-L-phenylalanine (L-PCPA) is a 5-HT biosynthesis inhibitor. 4-Chloro-L-phenylalanine is also a nonspecific antagonist of both isoforms of tryptophan hydroxylase (TPH1 and TPH2)^[1].

REFERENCES

[1]. Chasen J Greig, et al. Enhanced serotonin signaling increases intestinal neuroplasticity. J Surg Res. 2016 Nov;206(1):151-158.

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

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