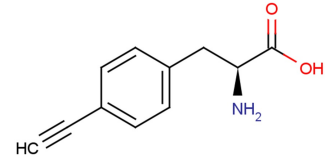


Data Sheet (Cat.No.T10142)

4-Ethynyl-L-phenylalanine

Chemical Properties

CAS No.:	278605-15-5
Formula:	C ₁₁ H ₁₁ NO ₂
Molecular Weight:	189.21
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	4-Ethynyl-L-phenylalanine is a selective, reversible and competitive inhibitor of tryptophan hydroxylase (TPH). 4-Ethynyl-L-phenylalanine is a competitive inhibitor with regard to the substrate tryptophan (K _i : 32.6 μM).
Targets(IC ₅₀)	TPH(ki): ki:32.6 μM
In vivo	4-Ethynyl-L-phenylalanine (30 mg/kg; i.p.) decreases in 5-HT and 5-HIAA levels in the rat midbrain but not in tissue. It is not inhibiting the aromatic amino acid decarboxylase. It has a low affinity for various recombinant 5-HT receptors.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.285 mL	26.426 mL	52.851 mL
5 mM	1.057 mL	5.285 mL	10.57 mL
10 mM	0.529 mL	2.643 mL	5.285 mL
50 mM	0.106 mL	0.529 mL	1.057 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Stokes AH, et al. p-ethynylphenylalanine: a potent inhibitor of tryptophan hydroxylase. J Neurochem. 2000 May;74(5):2067-73.

Inhibitors · Natural Compounds · Compound Libraries

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