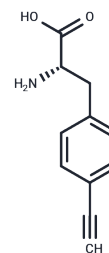


p-Ethynylphenylalanine

Chemical Properties

CAS No. :	278605-15-5
Formula:	C ₁₁ H ₁₁ NO ₂
Molecular Weight:	189.21
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	p-Ethynylphenylalanine (4-Ethynyl-L-phenylalanine), a selective, effective, and reversible tryptophan hydroxylase (TPH) inhibitor, exhibits competitive inhibition with a K_i of 32.6 μ M.
Targets(IC50)	Hydroxylase
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	1M HCl: 216 mg/mL (1141.59 mM), when pH is adjusted to 1 with HCl. Sonication is recommended. DMSO: 2 mg/mL (10.57 mM), Sonication is recommended. 1M NaOH: 216 mg/mL (1141.59 mM), when pH is adjusted to 11 with NaOH. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2851 mL	26.4257 mL	52.8513 mL
5 mM	1.057 mL	5.2851 mL	10.5703 mL
10 mM	0.5285 mL	2.6426 mL	5.2851 mL
50 mM	0.1057 mL	0.5285 mL	1.057 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Stokes AH, Xu Y, Daunais JA, et al. p-ethynylphenylalanine: a potent inhibitor of tryptophan hydroxylase. J Neurochem. 2000;74(5):2067-2073.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481