

Product Data Sheet

Product Name: p-Ethynylphenylalanine

Cat. No.: GC61463

Chemical Properties

Cas. No. 278605-15-5

SMILES N[C@@H](CC1=CC=C(C#C)C=C1)C(O)=O

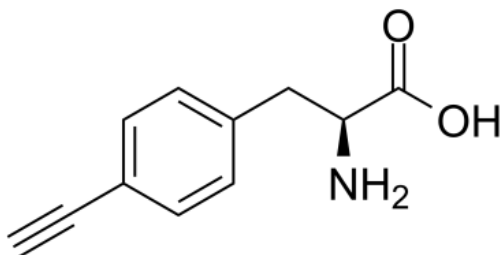
Formula $C_{11}H_{11}NO_2$ M.Wt 189.21

Solubility DMSO: 2.22 mg/mL (11.73 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

p-Ethynylphenylalanine (4-Ethynyl-L-phenylalanine) is a potent, selective, reversible and competitive inhibitor of tryptophan hydroxylase (TPH), with a K_i of 32.6 μ M[1].

p-Ethynylphenylalanine selectively and reversibly inhibits the biosynthesis of serotonin[1]. p-Ethynylphenylalanine has a low affinity for various recombinant 5-HT receptors (5-HT1, 5-HT2, 5-HT4, 5-HT5, 5-HT6, and 5-HT7)[1].

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

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p-Ethynylphenylalanine (30 mg/kg; i.p.) decreases in 5-HT and 5-HIAA levels in the rat midbrain but not in tissue[1].p-Ethynylphenylalanine does not inhibit the aromatic amino acid decarboxylase[1].

Animal Model: Male Sprague-Dawley rats (200 g)[1]

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

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