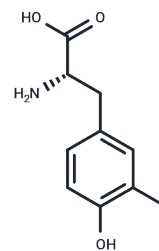


H-Tyr(3-I)-OH

Chemical Properties

CAS No. :	70-78-0
Formula:	C ₉ H ₁₀ INO ₃
Molecular Weight:	307.09
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	H-Tyr(3-I)-OH (3-Iodo-L-tyrosine) is an inhibitor of tyrosine hydroxylase (K _i = 0.39 M) and an intermediate in the synthesis of thyroid hormones
Targets(IC50)	Endogenous Metabolite
In vivo	3-iodo-L-tyrosine, at high concentration, is able to induce the intracellular aggregation of αSyn, and death of TH-positive neurons. These phenomena are considered as hallmarks of PD
Animal Research	Twenty mice were infused with H-Tyr(3-I)-OH into the dorsal striata. Mice were anesthetized with ketamine (50 mg/kg IP) and xylazine (5mg/kg IP,) and placed in a David Kopf stereotaxic apparatus. Vehicle and H-Tyr(3-I)-OH solution (0, 1 and 10 μM H-Tyr(3-I)-OH dissolved in 0.9% NaCl with 0.001% acetic acid) was slowly injected (5 μl volume) with a blunted 30-gauge cannula at the following coordinates of the left dorsal striata with respect to bregma: AP= +0.86, L= +1.6, and V= -3.5 mm.

Solubility Information

Solubility	H ₂ O: 10 mM, Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2564 mL	16.2819 mL	32.5637 mL
5 mM	0.6513 mL	3.2564 mL	6.5127 mL
10 mM	0.3256 mL	1.6282 mL	3.2564 mL
50 mM	0.0651 mL	0.3256 mL	0.6513 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

Fernández-Espejo Emilio, Cristian B H . Excess amounts of 3-iodo-L-tyrosine induce Parkinson-like features in experimental approaches of Parkinsonism[J]. NeuroToxicology, 2018:S0161813X18301980-.

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