Data Sheet (Cat.No.T4890)

TargetMol

3-Nitro-L-tyrosine

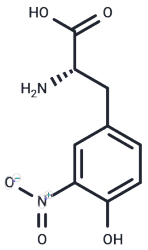
Chemical Properties

CAS No. : 621-44-3

Formula: C9H10N2O5

Molecular Weight: 226.19

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	3-Nitro-L-tyrosine (3-Nitrotyrosine) is the major product from the spontaneous reaction of peroxynitrite with tyrosine. Formation of nitrotyrosine can indicate the formation of peroxynitrite by a nitric oxide (NO)-dependent oxidative damage.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	H2O: 1.67 mg/mL (7.38 mM),, when pH is adjusted to 3 with HCl. Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4211 mL	22.1053 mL	44.2106 mL
5 mM	0.8842 mL	4.4211 mL	8.8421 mL
10 mM	0.4421 mL	2.2105 mL	4.4211 mL
50 mM	0.0884 mL	0.4421 mL	0.8842 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

Montoliu C, et al. 3-nitro-tyrosine as a peripheral biomarker of minimal hepatic encephalopathy in patients with liver cirrhosis. Am J Gastroenterol. 2011 Sep;106(9):1629-37.

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