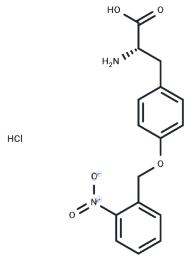
Data Sheet (Cat.No.T41208)

TargetMol

NB-caged Tyrosine hydrochloride

Chemical Properties



CAS No. : 207727-86-4

Formula: C16H17ClN2O5

Molecular Weight: 352.77

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	NB-caged Tyrosine hydrochloride is a L-Tyrosine caged with photosensitiveortho-nitrobenzyl side chain. Rapidly releases tyrosine when photolyzed (300-350 nm excitation). Is readily incorporated intoE.coliproteins via inclusion in growth media.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8347 mL	14.1735 mL	28.3471 mL
5 mM	0.5669 mL	2.8347 mL	5.6694 mL
10 mM	0.2835 mL	1.4174 mL	2.8347 mL
50 mM	0.0567 mL	0.2835 mL	0.5669 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

Miller et al (1998) Flash decaging of tyrosine sidechains in an ion channel. Neuron. 20 619 PMID: 9581754

Monk et al (2017) Rapid and inexpensive evaluation of nonstandard amino acid incorporation in Escherichia coli. ACS.Synth.Biol. 6 45 PMID: 27648665

Wang et al (2019) Time-resolved protein activation by proximal decaging in living systems. Nature 569 509 PMID: 31068699

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