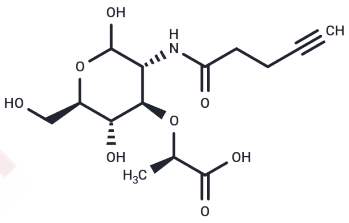
Data Sheet (Cat.No.T38301)

TargetMol

Click N-Acetylmuramic acid - alkyne

Chemical Properties



CAS No. : 2245794-65-2

Formula: C14H21NO8

Molecular Weight: 331.321

Storage: Keep away from direct sunlight
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	Derivative of N-acetylmuramic acid (NAM) component of bacterial peptidoglycans. Incorporated into bacterial peptidoglycans during biosynthesis. Suitable for fluorescent labeling of peptidoglycans when 'click'-conjugated to a fluorescent dye.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0182 mL	15.0912 mL	30.1823 mL
5 mM	0.6036 mL	3.0182 mL	6.0365 mL
10 mM	0.3018 mL	1.5091 mL	3.0182 mL
50 mM	0.0604 mL	0.3018 mL	0.6036 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

Liang et al (2017) Metabolic labelling of the carbohydrate core in bacterial peptidoglycan and its applications. Nat. Commun. 8 15015 PMID:28425464

DeMeester et al (2018) Synthesis of functionalized N-Acetyl muramic acids to probe bacterial cell wall recycling and biosynthesis. J.Am.Chem.Soc 140 9458 PMID:29986130

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