
Product Data Sheet

Product Name: Click N-Acetylmuramic acid - alkyne

Cat. No.: GC50573

Chemical Properties

Cas. No. 2245794-65-2

SMILES C[C@H](C(O)=O)O[C@H]1[C@@H]([C@H](OC([C@@H]1NC(CCC#C)=O)O)CO)OFormula C₁₄H₂₁NO₈ M.Wt 331.32

Solubility Soluble in DMSO 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**

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.

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

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

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