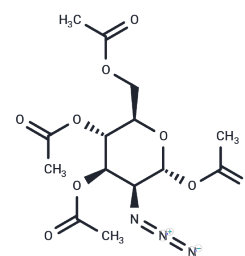


1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α -D-Mannopyranose

Chemical Properties

CAS No. :	68733-20-0
Formula:	C ₁₄ H ₁₉ N ₃ O ₉
Molecular Weight:	373.32
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α -D-mannopyranose is an analog of N-acetylmannosamine (ManNAc) and a building block. It has been used as a precursor in the synthesis of differently substituted trimers of the group A [N. meningitidis] capsular polysaccharide repeating unit for immunological experiments. It has also been used in the synthesis of fluorescent probes for lysosomal labeling.
Targets(IC50)	Others

Solubility Information

Solubility	DMF:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.67 mM),Sonication is recommended. DMSO: 15 mg/mL (40.18 mM),Sonication is recommended. DMF: 30 mg/mL (80.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6787 mL	13.3933 mL	26.7867 mL
5 mM	0.5357 mL	2.6787 mL	5.3573 mL
10 mM	0.2679 mL	1.3393 mL	2.6787 mL
50 mM	0.0536 mL	0.2679 mL	0.5357 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

Saxon, E., Luchansky, S.J., Hang, H.C., et al. Investigating cellular metabolism of synthetic azidosugars with the Staudinger ligation. *J. Am. Chem. Soc.* 124(50)14893-14902(2002)

Sl?tteg?rd, R., Teodorovic, P., Kinfe, H.H., et al. Synthesis of structures corresponding to the capsular polysaccharide of *Neisseria meningitidis* group A. *Org. Biomol. Chem.* 3(20)3782-3787(2005)

Yapici, N.B., Bi, Y., Li, P., et al. Highly stable and sensitive fluorescent probes (LysoProbes) for lysosomal labeling and tracking. *Sci. Rep.* 58576(2015)

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