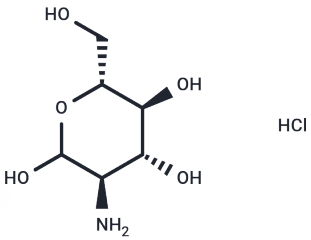
Data Sheet (Cat.No.T78496)

TargetMol

2-Amino-2-deoxyglucose hydrochloride

Chemical Properties



CAS No. : 1078691-95-8

Formula: C6H14ClNO5

Molecular Weight: 215.63

Storage: Keep away from moisture
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	2-Amino-2-deoxyglucose hydrochloride belongs to the class of hexosamine hydrochlorides and is a reagent used in biochemical synthesis. 2-Amino-2-deoxyglucose hydrochloride can be used to synthesize cyclopropene-modified hexosamine derivatives, such as Ac4GlcNCyoc and Ac4GalNCyoc. These derivatives serve as cyclopropene reporters for detecting metabolically engineered glycoproteins through Diels-Alder reactions in glycobiology studies.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: 80 mg/mL (371.01 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6376 mL	23.1879 mL	46.3757 mL
5 mM	0.9275 mL	4.6376 mL	9.2751 mL
10 mM	0.4638 mL	2.3188 mL	4.6376 mL
50 mM	0.0928 mL	0.4638 mL	0.9275 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

Späte AK, et al. Expanding the scope of cyclopropene reporters for the detection of metabolically engineered glycoproteins by Diels-Alder reactions. Beilstein J Org Chem. 2014;10:2235-2242. Published 2014 Sep 22.

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