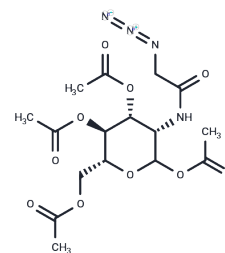


## Ac4ManNAz

## Chemical Properties

CAS No. :	361154-30-5
Formula:	C <sub>16</sub> H <sub>22</sub> N <sub>4</sub> O <sub>10</sub>
Molecular Weight:	430.37
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	Ac4ManNAz is an azide-containing metabolic glycoprotein labeling reagent that can selectively modify proteins and can be used for cell labeling, tracking, and proteomic analysis.
Targets(IC50)	PROTAC Linker
In vitro	<p><b>METHODS:</b> A549 cells were cultured with 0, 10, and 50 <math>\mu</math>M Ac4ManNAz, and total RNA was extracted to evaluate the quantity and quality of total RNA.</p> <p><b>RESULTS</b> Compared with untreated A549 cells, mRNA expression levels changed 7-fold; biological functional pathways related to urogenital cancer and cell invasion were significantly activated, while signal transduction related to cell maturation and surface receptor ligation was inhibited. [1]</p> <p><b>METHODS:</b> Ac4MANNAz (0-50 <math>\mu</math>M) treated A549 cells, and analyzed the channel activation, proliferation ability and vitality of A549 cells treated with Ac4ManNAz; Ac4ManNAz (0, 10, 20, 50 <math>\mu</math>M, 30 hours) treated A549 cells, and performed wounds on A549 cells Healing and invasion assays.</p> <p><b>RESULTS</b> There was no significant change in the activities of TRP M7 and VSOR Cl channels, and the growth rate of A549 cells was reduced by 10%; as the concentration of Ac4ManNAz increased, the migration and invasion abilities gradually decreased, [1]</p>

## Solubility Information

Solubility	DMSO: 252.5 mg/mL (586.7 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.3236 mL	11.6179 mL	23.2358 mL
5 mM	0.4647 mL	2.3236 mL	4.6472 mL
10 mM	0.2324 mL	1.1618 mL	2.3236 mL
50 mM	0.0465 mL	0.2324 mL	0.4647 mL

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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

Han SS, et al. Physiological Effects of Ac4ManNAz and Optimization of Metabolic Labeling for Cell Tracking. Theranostics. 2017 Mar 1;7(5):1164-1176.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481