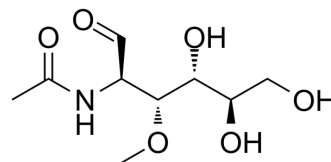


3-O-Methyl-N-acetyl-D-glucosamine

Cat. No.:	HY-131940									
CAS No.:	94825-74-8									
Molecular Formula:	C ₉ H ₁₇ NO ₆									
Molecular Weight:	235.23									
Target:	Others									
Pathway:	Others									
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years								
In solvent	-80°C	6 months								
	-20°C	1 month								



SOLVENT & SOLUBILITY

In Vitro

DMSO : 30 mg/mL (127.53 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	4.2512 mL	21.2558 mL	42.5116 mL
5 mM	0.8502 mL	4.2512 mL	8.5023 mL
10 mM	0.4251 mL	2.1256 mL	4.2512 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

3-O-Methyl-N-acetyl-D-glucosamine is a potent inhibitor of N-acetylglucosamine kinase. 3-O-Methyl-N-acetyl-D-glucosamine potently inhibits glucose phosphorylation by N-acetylglucosamine kinase whereas glucokinase is not at all affected by this hexosamine^[1].

IC₅₀ & Target

N-acetylglucosamine kinase^[1]

REFERENCES

[1]. Miwa I, et al. Utility of 3-O-methyl-N-acetyl-D-glucosamine, an N-acetylglucosamine kinase inhibitor, for accurate assay of glucokinase in pancreatic islets and liver. Enzyme Protein. 1994;48(3):135-142.

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

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