

NAG-thiazoline

Chemical Properties

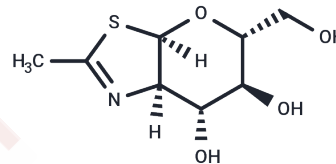
CAS No. : 179030-22-9

Formula: C₈H₁₃NO₄S

Molecular Weight: 219.26

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	NAG-thiazoline (GlcNAC-thiazoline) is an O-GlcNAcase inhibitor with Ki value of 180 nM. It is active against V. campbellii with MIC value of 0.5 µM.
Targets(IC50)	Others,Antibacterial
In vitro	NGT completely inhibited the growth of V. campbellii strain 650 with an minimal inhibitory concentration value of 0.5 µm[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (250.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.12 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5608 mL	22.804 mL	45.608 mL
5 mM	0.9122 mL	4.5608 mL	9.1216 mL
10 mM	0.4561 mL	2.2804 mL	4.5608 mL
50 mM	0.0912 mL	0.4561 mL	0.9122 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

NAG-thiazoline is a potent inhibitor of the *Vibriocampbellii* GH20 β -N-Acetylglucosaminidase[[1](#)]. FEBS Journal, 2020.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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