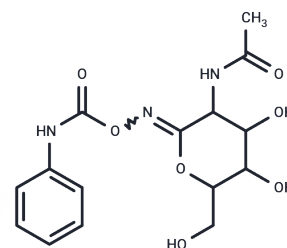


(Z)-PUGNAC

Chemical Properties

CAS No. :	132489-69-1
Formula:	C ₁₅ H ₁₉ N ₃ O ₇
Molecular Weight:	353.33
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	(Z)-PUGNAC, a potent O-GlcNAcase inhibitor more active than (E)-PUGNAC, removes O-GlcNAc from proteins (peptide O-GlcNAc-β-N-acetylaminoglucosidase) and can be used to increase levels of O-GlcNAc on nuclear and cytoplasmic proteins in vivo.
Targets(IC50)	Others
In vitro	In HeLa and HEK cell systems, (Z)-PugNAC amplifies the incorporation of O-GlcNAc onto proteins[1].

Solubility Information

Solubility	DMSO: 127.5 mg/mL (360.85 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: 1 mg/mL (2.83 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	2.8302 mL	14.1511 mL	28.3022 mL
5 mM	0.566 mL	2.8302 mL	5.6604 mL
10 mM	0.283 mL	1.4151 mL	2.8302 mL
50 mM	0.0566 mL	0.283 mL	0.566 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

Perreira M, et al. Inhibition of O-GlcNAcase by PUGNAc is dependent upon the oxime stereochemistry. *Bioorg Med Chem.* 2006;14(3):837-846.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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