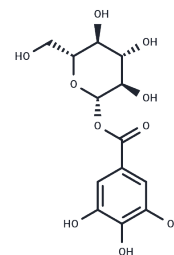


beta-Glucogallin

Chemical Properties

CAS No. :	13405-60-2
Formula:	C ₁₃ H ₁₆ O ₁₀
Molecular Weight:	332.26
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	beta-Glucogallin (beta-Glucogallin) is a selective aldose reductase (AKR1B1) inhibitor with antioxidant, anti-glycation, and anti-inflammatory properties. beta-Glucogallin is a naturally occurring compound derived from <i>Emblica officinalis</i> and is used in diabetes research. Vitamin B3-d4
Targets(IC50)	NF-κB,Reductase,PDGFR,ROS

Solubility Information

Solubility	DMSO: 80 mg/mL (240.78 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: 3.3 mg/mL (9.93 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	3.0097 mL	15.0485 mL	30.0969 mL
5 mM	0.6019 mL	3.0097 mL	6.0194 mL
10 mM	0.301 mL	1.5048 mL	3.0097 mL
50 mM	0.0602 mL	0.301 mL	0.6019 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

Li L, et al. Design of an amide N-glycoside derivative of β -glucogallin: a stable, potent, and specific inhibitor of aldose reductase. J Med Chem. 2014 Jan 9;57(1):71-7.

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