

Catalposide

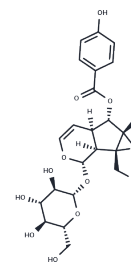
Chemical Properties

CAS No. : 6736-85-2

Formula: C₂₂H₂₆O₁₂

Molecular Weight: 482.43

Storage: Store at low temperature, Keep away from direct sunlight
 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	Catalposide is a potent inducer of (HO)-1 isolated from Catalpa ovate G. Don (Bignoniaceae). Catalposide possesses antioxidant, anti-apoptotic, anti-microbial, anti-tumoral, and anti-inflammatory properties.
Targets(IC50)	ERK,NOS,NF-κB,NO Synthase,Autophagy,IL Receptor,PPAR,TNF
In vitro	Catalposide, within a concentration range of 1-1000 ng/mL, demonstrates an inhibitory effect on the production of TNF-alpha, IL-1β, and IL-6 in RAW 264.7 macrophages[1].

Solubility Information

Solubility	DMSO: 4.89 mg/mL (10.14 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0728 mL	10.3642 mL	20.7284 mL
5 mM	0.4146 mL	2.0728 mL	4.1457 mL
10 mM	0.2073 mL	1.0364 mL	2.0728 mL
50 mM	0.0415 mL	0.2073 mL	0.4146 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

Electrochemical and spectrometric study of antioxidant activity of pomiferin, isopomiferin, osajin and catalposide. J Pharm Biomed Anal. 2008 Sep 10;48(1):127-33.

Inhibition of inducible nitric oxide synthesis by catalposide from *Catalpa ovata*. Planta Med. 2002 Aug;68(8):685-9.

Inhibition of TNF-alpha, IL-1beta, and IL-6 productions and NF-kappa B activation in lipopolysaccharide-activated RAW 264.7 macrophages by catalposide, an iridoid glycoside isolated from *Catalpa ovata* G. Don (Bignoniaceae). Int Immunopharmacol. 2002 Jul;2(8):1173-81.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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