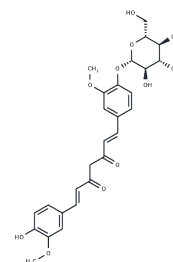


Curcumin monoglucoside

Chemical Properties

CAS No. :	387818-26-0
Formula:	C ₂₇ H ₃₀ O ₁₁
Molecular Weight:	530.521
Storage:	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	Curcumin monoglucoside is a flavonoid derivative with antioxidant, anti-apoptotic (Apoptosis), neuroprotective, and antibacterial properties. It can be utilized in research related to Parkinson's disease.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, Caspase, Antibacterial, JNK
In vitro	Curcumin monoglucoside (5 µM; 24 h) exerts anti-apoptotic effects in N27 cells by inhibiting the activation of caspase 3 through the suppression of JNK and c-jun phosphorylation [1]. Additionally, Curcumin monoglucoside (0.25-5 µM; 24 h) provides significant neuroprotection to N27 cells against ROT (500 nM; 24 h)-induced neuronal death [1]. It also displays antibacterial activity with MIC values of 5, 5, and 10 µg/mL against penicillin-sensitive, penicillin-intermediate, and penicillin-resistant <i>Streptococcus pneumoniae</i> strains, respectively [2].
In vivo	In the ROT fruit fly model, curcumin monoglucoside (500 µM) exhibits antioxidant properties by increasing GSH levels and reducing ROS [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8849 mL	9.4247 mL	18.8494 mL
5 mM	0.377 mL	1.8849 mL	3.7699 mL
10 mM	0.1885 mL	0.9425 mL	1.8849 mL
50 mM	0.0377 mL	0.1885 mL	0.377 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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