Data Sheet (Cat.No.TN1534)

TargetMol

Cucurbitacin B 2-O-beta-D-glucoside

Chemical Properties

CAS No. : 65247-27-0

Formula: C38H56O13

Molecular Weight: 720.84

Storage: 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	Cucurbitacin B 2-O-beta-D-glucoside (CuBg) is abundant in C. melo pedicels. Cucurbitacin B 2-O-beta-D-glucoside (CuBg) is therefore used in plant metabolite conversion and phytochemical research systems to investigate glycoside-to-aglycone transformation processes, extraction efficiency, and acid hydrolysis kinetics in plant-derived compound systems.
Targets(IC50)	Others
In vitro	A process for CuBg biotransformation to CuB was developed for the first time. A strain of Streptomyces species that converts CuBg into CuB was isolated from an enrichment culture of C. melo pedicels. After optimization of conditions for enzyme production and biotransformation, a maximum conversion rate of 92.6 % was obtained at a CuBg concentration of 0.25 g/L. When biotransformation was performed on C. melo pedicel extracts, the CuB concentration in the extracts increased from 1.50 to 3.27 g/L. The conversion rate was almost 100 %.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3873 mL	6.9364 mL	13.8727 mL
5 mM	0.2775 mL	1.3873 mL	2.7745 mL
10 mM	0.1387 mL	0.6936 mL	1.3873 mL
50 mM	0.0277 mL	0.1387 mL	0.2775 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

A biotransformation process for the production of cucurbitacin B from its glycoside using a selected Streptomyces sp.Bioprocess Biosyst Eng. 2016 Sep;39(9):1435-40.

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