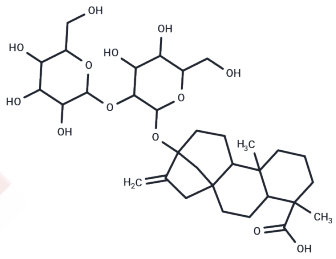
Data Sheet (Cat.No.T4964)

TargetMol

steviolbioside

Chemical Properties



CAS No. : 41093-60-1

Formula: C32H50O13

Molecular Weight: 642.73

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	Steviolbioside (CCRIS-6025) is a natural sweetener, it presents notable inhibition on human hepatocarcinoma cell Hep3B, human breast cancer cell MDA-MB-231 and human pancreatic cancer cell BxPC-3, thus, steviolbioside(CCRIS-6025) could be a potential remedy for human breast cancer. Steviolbioside exhibits moderate antituberculosis activity against M. tuberculosis strain H37RV in vitro.
Targets(IC50)	Others,Antibacterial

Solubility Information

Solubility	Ethanol: Soluble, DMSO: 91 mg/mL (141.58 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 (5.13 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5559 mL	7.7793 mL	15.5586 mL
5 mM	0.3112 mL	1.5559 mL	3.1117 mL
10 mM	0.1556 mL	0.7779 mL	1.5559 mL
50 mM	0.0311 mL	0.1556 mL	0.3112 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

Chen J M , Ding L , Sui X C , et al. Production of a bioactive sweetener steviolbioside via specific hydrolyzing ester linkage of stevioside with a β-galactosidase.[J]. Food Chemistry, 2016, 196(3):155-160.
Aranda-González I, Moguel-Ordoñez Y, Betancur-Ancona D . Validation of HPLC-UV method for determination of minor glycosides contained in Stevia rebaudiana Bertoni leaves. Biomedical Chromatography Bmc, 2015, 29(5): 733-738.