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DATASHEET

Stevioside hydrate

Product overview

Name	Stevioside hydrate
Cat No	HB4094
Purity	>95%
Description	Glycoside with various biological actions

Biological Data

Biological description	Noncaloric natural sweetener, 300 times more potent than sucrose. Antidiabetic. Antihyperglycaemic and antihypoglycaemic. Potentiates insulin secretion. Enhances acetyl-CoA carboxylase (ACC) gene expression. Increases insulin sensitivity. Antihypertensive. Ca ²⁺ influx inhibitor. Anticancer compound. Chemopreventive. Anti-inflammatory. IKK β , NF- κ B and MAPK signaling inhibitor. Induces TNF-alpha, IL-1 β and nitric oxide release. Immunomodulator. Increases phagocytic activity, haemagglutination antibody titre, delayed type hypersensitivity. Increased proliferation in LPS and Con A stimulated B and T cells. Peripheral μ -opioid receptors activator. Important for regulation of glucose homeostasis. Anti-atherosclerotic.
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Solubility & Handling

Storage instructions	+4°C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	804.9
Chemical structure	The chemical structure of Stevioside hydrate is shown. It features a trisubstituted cyclohexenyl ring system. One substituent is a trisubstituted cyclohexenyl ring with hydroxyl groups (OH) at the 2, 4, and 6 positions. Another substituent is a cyclohexyl ring with hydroxyl groups (OH) at the 2, 4, and 6 positions. The third substituent is a cyclohexyl ring with a hydroxyl group (OH) at the 2 position and a methyl group (CH ₃) at the 10 position. The entire molecule is labeled with xH ₂ O, indicating it is a hydrate.
CAS Number	57817-89-7 (anhydrous)
InChiKey	UEDUENGHJMELGK-ZBVPAOMMSA-N
Appearance	White solid