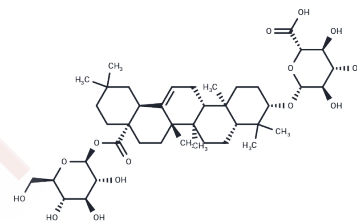


Chikusetsusaponin IVa

Chemical Properties

CAS No. :	51415-02-2
Formula:	C42H66O14
Molecular Weight:	794.97
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Chikusetsusaponin IVa (Calendulose F) is a novel AMPK activator, can induce insulin secretion from β TC3 cells via GPR4 mediated calcium and PKC pathways, may be developed into a new potential for therapeutic agent used in T2DM patients.
Targets(IC50)	AMPK

Solubility Information

Solubility	DMSO: 60 mg/mL (75.47 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2579 mL	6.2895 mL	12.5791 mL
5 mM	0.2516 mL	1.2579 mL	2.5158 mL
10 mM	0.1258 mL	0.629 mL	1.2579 mL
50 mM	0.0252 mL	0.1258 mL	0.2516 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.

Reference

Li Y, ET AL. Chikusetsu saponin IVa regulates glucose uptake and fatty acid oxidation: implications in antihyperglycemic and hypolipidemic effects. J Pharm Pharmacol. 2015 Jul;67(7):997-1007.

Kiełkiewicz R M, Obrębski M, Śliwińska A A, et al. Detailed qualitative and quantitative UHPLC-DAD-ESI-MS3 analysis of *Aralia spinosa* L. (Araliaceae) phytochemical profile to evaluate its potential as novel plant material for bioactive compounds acquisition using in vitro culture. Industrial Crops and Products. 2024, 219: 119123.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481