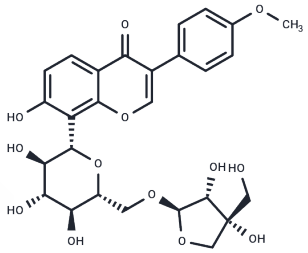
Data Sheet (Cat.No.TN6636)

TargetMol

Formononetin-8-C-beta-D-apiofuranosyl-(1->6)-O-beta-D-glucopyranoside

Chemical Properties



CAS No. : 1147858-78-3

Formula: C27H30O13

Molecular Weight: 562.52

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	Formononetin-8-C-beta-D-apiofuranosyl-(1->6)-O-beta-D-glucopyranoside is a natural product for research related to life sciences. The catalog number is TN6636 and the CAS number is 1147858-78-3.
In vitro	Tongmai formula (TMF) is a drug combination of three components including Puerariae Lobatae Radix [roots of Pueraria lobata], Salviae Miltiorrhizae Radix (roots of Salvia miltiorrhiza) and Chuanxiong Rhizoma (rhizomes of Ligusticum chuanxiong) in a weight ratio of 1:1:1. METHODS AND RESULTS: The absorption and transport of isoflavonoid compounds from Tongmai formula across human intestinal epithelial (Caco-2) cells in vitro were studied in this paper. The assay isoflavonoid compounds include daidzein, formononetin, 5-hydroxylononin, ononin, daidzin, 3'-methoxypuerarin, genistin, puerarin, formononetin-8-C-β-D-apiofuranosyl-(1→6)-O-β-D-glucopyranoside (Formononetin-8-C-beta-D-apiofuranosyl-(1->6)-O-beta-D-glucopyranoside), formononetin-7-O-β-D-apiofuranosyl-(1→6)-O-β-D-glucopyranoside, lanceolarin, kakkanin, daidzein-7,4'-di-O-β-D-glucopyranoside, mirificin, 3'-hydroxypuerarin, 3'-methoxydaidzin, formononetin-8-C-β-D-xylopyranosyl-(1→6)-O-β-D-glucopyranoside, genistein-8-C-β-D-apiofuranosyl-(1→6)-O-β-D-glucopyranoside, genistein-7-O-β-D-apiofuranosyl-(1→6)-O-β-D-glucopyranoside (ambocin), 3'-hydroxymirificin, 6'-O-β-D-xylosylpuerarin, biochanin A-8-C-β-D-apiofuranosyl-(1→6)-O-β-D-glucopyranoside, 3'-methoxydaidzein-7,4'-di-O-β-D-glucopyranoside, daidzein-7-O-β-D-glucopyranosyl-(1→4)-O-β-D-glucopyranoside, and daidzein-7-O-α-D-glucopyranosyl-(1→4)-O-β-D-glucopyranoside. By using human Caco-2 monolayer as an intestinal epithelial cell model in vitro, the permeability of above-mentioned 25 isoflavonoids in TMF were studied from the apical (AP) side to basolateral (BL) side or from the BL side to AP side. The assay compounds were determined by reversed phased high-performance liquid chromatography (HPLC) coupled with UV detector.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7777 mL	8.8886 mL	17.7771 mL
5 mM	0.3555 mL	1.7777 mL	3.5554 mL
10 mM	0.1778 mL	0.8889 mL	1.7777 mL
50 mM	0.0356 mL	0.1778 mL	0.3555 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

Absorption and transport of isoflavonoid compounds from Tongmai formula across human intestinal epithelial (Caco-2) cells in vitro. China journal of Chinese materia medica, 2017, 42(16):3206-3212.