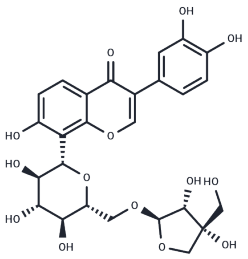
# Data Sheet (Cat.No.TN6435)

TargetMol

## 3'-Hydroxymirificin

### Chemical Properties



CAS No. : 168035-02-7

Formula: C26H28O14

Molecular Weight: 564.49

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 | 3'-Hydroxymirificin is a natural product for research related to life sciences. The catalog number is TN6435 and the CAS number is 168035-02-7. |
| Targets(IC50) | Estrogen Receptor/ERR |
| 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. The absorption and transport of isoflavonoid compounds from Tongmai formula across human intestinal epithelial (Caco-2) cells in vitro were studied in this paper. METHODS AND RESULTS: 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-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. Transport parameters and apparent permeability coefficients (Papp) were then calculated and and compared with those of propranolol and atenolol, which are the transcellular transport marker and as a control substance for high and poor permeability, respectively. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 1.7715 mL | 8.8576 mL | 17.7151 mL |
| 5 mM | 0.3543 mL | 1.7715 mL | 3.543 mL |
| 10 mM | 0.1772 mL | 0.8858 mL | 1.7715 mL |
| 50 mM | 0.0354 mL | 0.1772 mL | 0.3543 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. Zhongguo Zhong Yao Za Zhi. 2017 Aug;42(16):3206-3212.