

Chamaechromone

Chemical Properties

CAS No.:	93413-00-4
Formula:	C30H22O10
Molecular Weight:	542.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Chamaechromone has anti-HBV and insecticidal activity. The hydroxylation of Chamaechromone is inhibited by $\alpha\pm$ -naphthoflavone, and predominantly catalyzed by recombinant human cytochrome P450 1A2.
Targets(IC ₅₀)	HBV: None P450: None
In vitro	Twenty-four rats were randomly divided into four groups, including two oral administration groups (100mg/kg(-1)), one intravenous injection group (5 mg/kg(-1)), and one control group. The metabolites in rat urine and feces and bile were identified by UPLC/Q-TOF MS analysis and β -glucuronidase hydrolysis. Moreover, the possible metabolic mechanism was further confirmed by Phase I and Phase II metabolism and catechol-O-methyltransferase methylation in rat liver S9 fraction and degradation in rat intestinal bacteria. A total of 24 metabolites from Chamaechromone were detected and identified in vivo and in vitro, 20 of which were novel. And the major metabolic processes were hydroxylation, methylation, glucuronation, acetylation, dehydroxylation and degradation[1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.843 mL	9.217 mL	18.433 mL
5 mM	0.369 mL	1.843 mL	3.687 mL
10 mM	0.184 mL	0.922 mL	1.843 mL
50 mM	0.037 mL	0.184 mL	0.369 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Metabolites characterization of chamaechromone in vivo and in vitro by using ultra-performance liquid chromatography/Xevo G2 quadrupole time-of-flight tandem mass spectrometry. J Ethnopharmacol. 2014;151(1):242-52.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481