

## (R)-5,7-Dimethoxyflavanone

## Chemical Properties

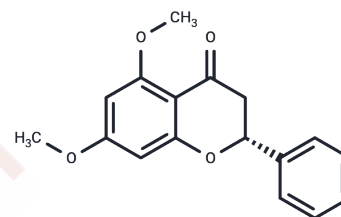
CAS No. : 1277188-85-8

Formula: C<sub>17</sub>H<sub>16</sub>O<sub>4</sub>

Molecular Weight: 284.31

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	(R)-5,7-Dimethoxyflavanone has anti-inflammatory activity.
Targets(IC50)	IL Receptor, TNF
In vitro	These five compounds significantly and dose-dependently inhibited the inflammatory mediators; nitric oxide (NO), and cytokines [tumor necrosis factor (TNF)-alpha and interleukin (IL)-12]. According to their inhibitory results, the order of anti-inflammatory potency was compounds 3>5>4>2>1. Furthermore, peritoneal macrophages were pre-activated with LPS/IFN-gamma for 24h, and determined the inhibitory effects of the above-mentioned isolates on the production of NO after a further 24h.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5173 mL	17.5864 mL	35.1729 mL
5 mM	0.7035 mL	3.5173 mL	7.0346 mL
10 mM	0.3517 mL	1.7586 mL	3.5173 mL
50 mM	0.0703 mL	0.3517 mL	0.7035 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

Anti-inflammatory activities of flavonoids isolated from *Caesalpinia pulcherrima*. J Ethnopharmacol. 2005 Sep 14; 100(3):249-53.

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