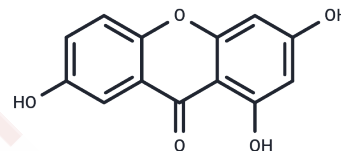


## Gentisein

## Chemical Properties

CAS No. :	529-49-7
Formula:	C <sub>13</sub> H <sub>8</sub> O <sub>5</sub>
Molecular Weight:	244.2
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	Gentisein (NSC-329491), a primary metabolite of Mangiferin, exhibits significant inhibition of serotonin uptake, demonstrating potency with an IC <sub>50</sub> value of 4.7 μM[1][2].
Targets(IC <sub>50</sub> )	5-HT Receptor, Serotonin Transporter

## Solubility Information

Solubility	DMSO: 150 mg/mL (614.25 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (40.95 mM), Suspension. 10% DMSO+90% Saline: < 10 mg/mL (40.95 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.095 mL	20.475 mL	40.950 mL
5 mM	0.819 mL	4.095 mL	8.190 mL
10 mM	0.4095 mL	2.0475 mL	4.095 mL
50 mM	0.0819 mL	0.4095 mL	0.819 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

Wang H, et al. Identification and determination of four metabolites of mangiferin in rat urine. *J Pharm Biomed Anal.* 2007;45(5):793-798.

Tzankova, Virginia et al. (2010). Inhibition of 5-HT uptake by some constituents of *Hypericum annulatum* in rat brain in vitro. *Pharmacologyonline.* 2.

Na Z, Xu Y. [Chemical constituents from twigs of *Garcinia xipshuanbannaensis*]. *Zhongguo Zhong Yao Za Zhi.* 2009 Sep;34(18):2338-42. Chinese. PubMed PMID: 20030083.

Mkouna P, Fomum ZT, Meyer M, Bodo B, Nkengfack AE. Globulixanthone F, a new polyoxygenated xanthone with an isoprenoid group and two antimicrobial biflavonoids from the stem bark of *Symphonia globulifera*. *Nat Prod Commun.* 2009 Jun;4(6):803-8. PubMed PMID: 19634326.

**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:34 Washington Street,Wellesley Hills,MA 02481