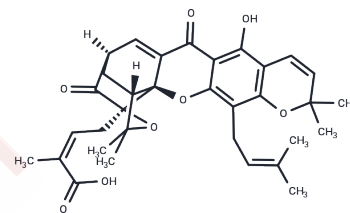


Morellic acid

Chemical Properties

CAS No. :	5304-71-2
Formula:	C ₃₃ H ₃₆ O ₈
Molecular Weight:	560.63
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Morellic acid has anti-cancer activity, it strongly inhibited the migration of HUVEC at a low concentration of 0.5 μ M in HUVEC cell migration assay in vitro. Morellic acid also has antiangiogenic activity.
Targets(IC50)	Others
In vitro	An improved HPLC method was developed to simultaneously quantify 12 caged xanthenes, including three pairs of epimers and four pairs of trans-cis isomers, i.e. forbesione, isoMorellic acid, Morellic acid, R-30-hydroxygambogic acid, S-30-hydroxygambogic acid, isogambogenic acid, gambogenic acid, gambogellic acid, R-isogambogic acid, S-isogambogic acid, R-gambogic acid and S-gambogic acid. This method was validated to be sensitive, precise and accurate with limits of detection of 0.03-0.08 microg/mL, overall intra-day and inter-day variations less than 7.9% and overall recovery over 93.2%. The correlation coefficients ($r(2)$) of the calibration curves were higher than 0.995 for all analytes. The newly established method was successfully applied to reveal the difference in the chemical profiles and contents of these analytes in gamboges from different origins.

Solubility Information

Solubility	DMSO: 50 mg/mL (89.19 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: 2.5 mg/mL (4.46 mM),Sonication is recommended. <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	1.7837 mL	8.9185 mL	17.8371 mL
5 mM	0.3567 mL	1.7837 mL	3.5674 mL
10 mM	0.1784 mL	0.8919 mL	1.7837 mL
50 mM	0.0357 mL	0.1784 mL	0.3567 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

Improved high-performance liquid chromatographic method for simultaneous determination of 12 cytotoxic caged xanthenes in gamboges, a potential anticancer resin from *Garcinia hanburyi*. *Biomedical Chromatography*, 2008, 22(6):637-644.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481