

## Neomangiferin

## Chemical Properties

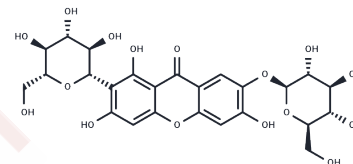
CAS No. : 64809-67-2

Formula: C<sub>25</sub>H<sub>28</sub>O<sub>16</sub>

Molecular Weight: 584.48

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	Neomangiferin (Mangiferin 7-glucoside) has beneficial effects on high fat diet-induced nonalcoholic fatty liver disease in rats. Neomangiferin and mangiferin inhibit tartrate-resistant acid phosphatase, a biochemical marker of osteoclast function and bone resorption.
Targets(IC50)	Phosphatase

## Solubility Information

Solubility	DMSO: 60 mg/mL (102.66 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 mg/mL (3.42 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	1.7109 mL	8.5546 mL	17.1092 mL
5 mM	0.3422 mL	1.7109 mL	3.4218 mL
10 mM	0.1711 mL	0.8555 mL	1.7109 mL
50 mM	0.0342 mL	0.1711 mL	0.3422 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

Zhou C, et al. Beneficial effects of neomangiferin on high fat diet-induced nonalcoholic fatty liver disease in rats. *Int Immunopharmacol.* 2015 Mar;25(1):218-28.

Xu L, et al. Preparative isolation of neomangiferin and mangiferin from *Rhizoma anemarrhenae* by high-speed countercurrent chromatography using ionic liquids as a two-phase solvent system modifier. *J Sep Sci.* 2010 Jan;33(1):31-6.

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