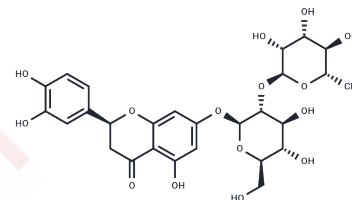


## Neoeriocitrin

## Chemical Properties

CAS No. :	13241-32-2
Formula:	C <sub>27</sub> H <sub>32</sub> O <sub>15</sub>
Molecular Weight:	596.53
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	Neoeriocitrin is a natural product isolated from <i>Drynaria Rhizome</i> , shows activity on proliferation and osteogenic differentiation in MC3T3-E1. Neoeriocitrin is a potent acetylcholinesterase (AChE) inhibitor.
Targets(IC50)	Cholinesterase (ChE)
In vitro	Both Neoeriocitrin and naringin exhibited the best effect on proliferation and osteogenic differentiation at concentration of 2µg/ml. Neoeriocitrin more significantly improved proliferation and alkaline phosphatase (ALP) activity as well as up-regulated Runx2, COL1 and OCN expression by 56%, 37% and 14% respectively than naringin. Furthermore, Neoeriocitrin could rescue the inhibition effect of cell differentiation induced by PD98059 to some degree[1]

## Solubility Information

Solubility	DMSO: 32.5 mg/mL (54.48 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 (3.35 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	1.6764 mL	8.3818 mL	16.7636 mL
5 mM	0.3353 mL	1.6764 mL	3.3527 mL
10 mM	0.1676 mL	0.8382 mL	1.6764 mL
50 mM	0.0335 mL	0.1676 mL	0.3353 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

Comparison of neoeriocitrin and naringin on proliferation and osteogenic differentiation in MC3T3-E1. *Phytomedicine*. 2011 Aug 15;18(11):985-9.

Jang S A, Hwang Y H, Kim T, et al. Anti-Osteoporotic and Anti-Adipogenic Effects of the Water Extract of *Drynaria roosii* Nakaike in Ovariectomized Mice Fed a High-Fat Diet. *Molecules*. 2019, 24(17): 3051

Jang S A, Hwang Y H, Kim T, et al. Anti-Osteoporotic and Anti-Adipogenic Effects of the Water Extract of *Drynaria roosii* Nakaike in Ovariectomized Mice Fed a High-Fat Diet[J]. *Molecules*. 2019, 24(17): 3051.

**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