

## Linarin

## Chemical Properties

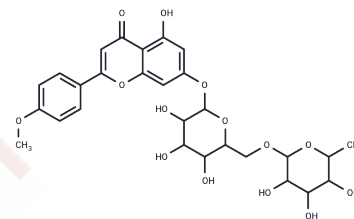
CAS No. : 480-36-4

Formula: C<sub>28</sub>H<sub>32</sub>O<sub>14</sub>

Molecular Weight: 592.55

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

Description	1. Linarin (Acacetin-7-O-rutinoside) (acacetin-7-O-β-d-rutinoside) shows selective dose dependent inhibitory effect on acetylcholinesterase. 2. Linarin alleviates GalN/LPS-induced liver injury by suppressing TNF-α-mediated apoptotic pathways. 3. Linarin prevents A beta-induced neurotoxicity through the activation of PI3K/Akt, which subsequently inhibits GSK-3b and up-regulates Bcl-2. 4. The piperine significantly enhanced the oral absorption of Linarin in rats by inhibiting P-glycoprotein mediated cellular efflux during the intestinal absorption and likely simultaneously by inhibiting the metabolism of Linarin.
Targets(IC50)	Cholinesterase (ChE),TNF

## Solubility Information

Solubility	Pyridine, Methanol, etc.: Soluble, DMSO: 91 mg/mL (153.57 mM),Sonication is recommended. Ethanol: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6876 mL	8.4381 mL	16.8762 mL
5 mM	0.3375 mL	1.6876 mL	3.3752 mL
10 mM	0.1688 mL	0.8438 mL	1.6876 mL
50 mM	0.0338 mL	0.1688 mL	0.3375 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.

### Reference

Kim S J , Cho H I , Kim S J , et al. Protective effect of linarin against d-galactosamine and lipopolysaccharide-induced fulminant hepatic failure[J]. European Journal of Pharmacology, 2014, 738:66-73.

Jang S A, Hwang Y H, Yang H, et al. Water Extract of *Mentha arvensis* L. Attenuates Estrogen Deficiency-Induced Bone Loss by Inhibiting Osteoclast Differentiation. *Frontiers in Pharmacology*. 2021, 12.

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