

Product Name : Isomangiferin

Synonyms : —

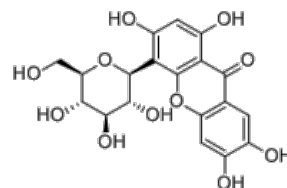
Cat No. : M13720

CAS Number : 24699-16-9

Molecular Formula : C₁₉H₁₈O₁₁

Formula Weight : 422.34

Chemical Name : 4-beta-D-Glucopyranosyl-1,3,6,7-tetrahydroxy-9H-xanthen-9-one



Description : Isomangiferin is the major tetracyclic oxindole alkaloid components of *Uncaria* species, inhibits NMDA receptor with IC₅₀ of 43.2 uM, also blocks calcium channel; also effectively blocks the EphA4-dependent signaling in hippocampal neurons, reduces the EphA4 activity effectively in the hippocampus of APP/PS1 transgenic mice after oral administration, restores the impaired long-term potentiation in transgenic mouse models of AD.

Pathway : Membrane Transporter/Ion Channel

Target : iGluR

Receptor : Antiviral;Free radical scavengers

Solubility : DMSO: 10 mM (< 1 mg/ml refers to the product slightly soluble or insoluble)

SMILES : C1=C2C(=CC(=C1O)O)OC3=C(C2=O)C(=CC(=C3C4C(C(C(C4)CO)O)O)O)O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Kang TH, et al. Eur J Pharmacol. 2002 Nov 22;455(1):27-34.| 2.Kang TH, et al. Life Sci. 2004 Dec 3;76(3):331-43.| 3.Fu AK, et al. Proc Natl Acad Sci U S A. 2014 Jul 8;111(27):9959-64.