

Maclurin

Chemical Properties

CAS No.:	519-34-6
Formula:	C13H10O6
Molecular Weight:	262.21
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Maclurin is isolated from <i>Maclura pomifera</i> . Maclurin is composed of two isoforms (isolectins); some sequence similarity to jacalin; potent non-specific blood-group hemagglutinin.
-------------	--

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.814 mL	19.069 mL	38.137 mL
5 mM	0.763 mL	3.814 mL	7.627 mL
10 mM	0.381 mL	1.907 mL	3.814 mL
50 mM	0.076 mL	0.381 mL	0.763 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Li X, Gao Y, Li F, Liang A, Xu Z, Bai Y, Mai W, Han L, Chen D. Maclurin protects against hydroxyl radical-induced damages to mesenchymal stem cells: antioxidant evaluation and mechanistic insight. *Chem Biol Interact*. 2014 Aug 5;219:221-8. doi: 10.1016/j.cbi.2014.06.014. Epub 2014 Jun 25. PubMed PMID: 24973644.
2. Ku MJ, Kim JH, Lee J, Cho JY, Chun T, Lee SY. Maclurin suppresses migration and invasion of human non-small-cell lung cancer cells via anti-oxidative activity and inhibition of the Src/FAK-ERK- β -catenin pathway. *Mol Cell Biochem*. 2015 Apr;402(1-2):243-52. doi: 10.1007/s11010-015-2331-4. Epub 2015 Jan 29. PubMed PMID: 25630491.
3. Healey M. Note on the supposed production of maclurin from acacatechin. *Biochem J*. 1932;26(2):388-91. PubMed PMID: 16744836; PubMed Central PMCID: PMC1260917.
4. Kaya D, Jäger AK, Yalçın FN, Ersöz T. MAO-A inhibition profiles of some benzophenone glucosides from *Gentiana verna* subsp. *pontica*. *Nat Prod Commun*. 2014 Apr;9(4):505-6. PubMed PMID: 24868869.

Inhibitors · Natural Compounds · Compound Libraries

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:36 Washington Street,Wellesley Hills,MA 02481