

Product Data Sheet

Product Name: Trifolirhizin

Cat. No.: GC38166

Chemical Properties

Cas. No. 6807-83-6

SMILES O[C@H]([C@@H](O)[C@@H]1O)[C@@H](O[C@@H]1CO)OC2=CC=C3C(OC[C@]4([H])[C@@]3([H])OC5=C4C=C(OCO6)C6=C5)=C2

Formula $C_{22}H_{22}O_{10}$

M.Wt 446.4

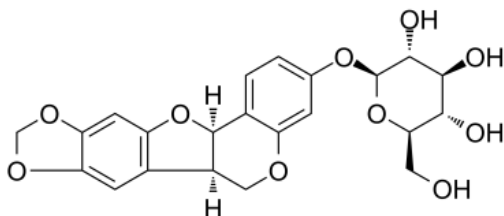
Solubility DMSO : 100 mg/mL (224.01 mM; Need ultrasonic)

Storage -20°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Trifolirhizin is a pterocarpan flavonoid isolated from the roots of *Sophora flavescens*. Trifolirhizin possesses potent tyrosinase inhibitory activity with an IC₅₀ of 506 μM[1]. Trifolirhizin exhibits potential anti-inflammatory and anticancer activities[2].

[1]. Hyun SK, et al. Inhibitory effects of kurarinol, kuraridinol, and trifolirhizin from *Sophora flavescens*

Caution: Product has not been fully validated for medical applications. For research use only.

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on tyrosinase and melanin synthesis. Biol Pharm Bull. 2008 Jan;31(1):154-8. [2]. Zhou H, et al. Anti-Inflammatory and antiproliferative activities of trifolirhizin, a flavonoid from Sophora flavescens roots. J Agric Food Chem. 2009 Jun 10;57(11):4580-5.

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