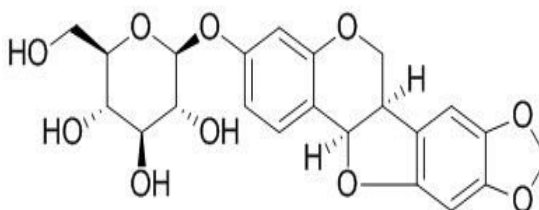


Trifolirhizin Datasheet

5th Edition (Revised in January, 2017)**[Product Information]****Name:** Trifolirhizin**Catalog No.:** CFN97160**Cas No.:** 6807-83-6**Purity:** >=98%**M.F:** C₂₂H₂₂O₁₀**M.W:** 446.4**Physical Description:** Cryst**Synonyms:** 3-(β-D-Glucopyranosyloxy)-6α,12α-dihydro-6H-[1,3]dioxolo[5,6]benzofuro[3,2-c][1]benzopyran; Maackiain 3-glucoside.**[Intended Use]**

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]The roots of *Sophora flavescens* L.**[Biological Activity or Inhibitors]**

Trifolirhizin is an active constituent that inhibits acetylcholine mediated airway smooth muscle (ASM) contraction or directly relaxes pre-contracted ASM independent of β 2-adrenoceptors.^[1]

Trifolirhizin possesses potential anti-inflammatory and anticancer activities, it can dose-dependently inhibit lipopolysaccharide (LPS)-induced expression of pro-inflammatory cytokines but also inhibit LPS-induced expression of cyclooxygenase-2 (COX-2), in addition, trifolirhizin also shows in vitro inhibitory effects on the growth of human A2780 ovarian and H23 lung cancer cells.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: 0.1% Acetic acid in water- Acetonitrile, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 25°C;

The wave length of determination: 310 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Yang N, Liang B, Srivastava K, *et al. Phytochemistry*, 2013 Nov; 95:259-67.

[2] Zhou H, Lutterodt H, Cheng Z, *et al. J. Agric. Food Chem.*, 2009 Jun 10; 57(11):4580-5.

[3] Liu J C, Lu S H, Xie W, *et al. Chinese Journal of Pharmaceutical Analysis*, 2015, 35(1): 121-4.

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