

Praeruptorin D Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Praeruptorin D

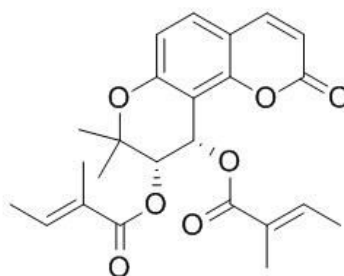
Catalog No.: CFN98142

Cas No.: 73069-28-0

Purity: >=98%

M.F: C₂₄H₂₆O₇

M.W: 426.46



Physical Description: Powder

Synonyms: (2Z,2'Z)-2-Methyl-2-butenic-acid(9S,10S)-9,10-dihydro-8,8-dimethyl-2-oxo-2H,8H-benzo[1,2-b:3,4-b']dipyran-9,10-diyl ester.

[Intended Use]

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

[Source]

The roots of *Peucedanum praeruptorum* Dunn.

[Biological Activity or Inhibitors]

Praeruptorin D (PD), a major pyranocoumarin isolated from Radix Peucedani, exhibits antitumor and anti-inflammatory activities.^[1]

Praeruptorin D and E protect mice from hydrochloric acid (HCl)-induced lung injury by inhibiting PMNs influx, IL-6 release and protein exudation.^[2]

Praeruptorin D can significantly up-regulate CYP3A4 expression and activity via the Pregnane X receptor (PXR)-mediated pathway and this should be taken into consideration to predict any potential herb-drug interactions when PD and Peucedanum praeruptorum Dunn are co-administered with other drugs. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[1]

Mobile phase: Methanol -H₂O=75:25 ;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 323 nm.

[Storage]

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

[References]

[1] Liang T, Yue W, Du X, *et al. Int. J.Mol. Sci.*, 2012, 13(7):9129-41.

[2] Yu P J, Li J R, Zhu Z G, *et al. Eur. J. Pharmacol.*, 2013, 710(1-3):39-48.

[3] Huang L, Huang M, Li Y H, *et al. J. Ethnopharmacol.*, 2013, 148(2):596-602.

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