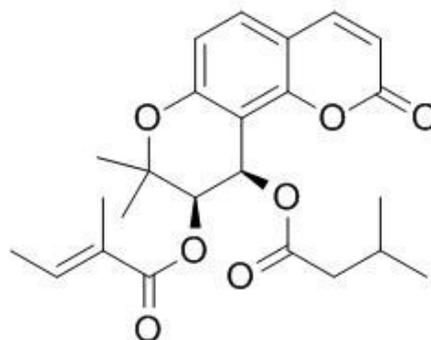


Praeruptorin C Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Praeruptorin C**Catalog No.:** CFN98143**Cas No.:** 72463-77-5**Purity:** > 98%**M.F:** C₂₄H₂₈O₇**M.W:** 428.48**Physical Description:** White cryst.**Synonyms:** (2Z)-2-Methyl-2-butenoid acid-(9R,10R)-9,10-dihydro-8,8-dimethyl-10-(3-methyl-1-oxobutoxy)-2-oxo-2H,8H-benzo[1,2-b:3,4-b']dipyran-9-yl 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 C (Pra-C), one of the principal bioactive components derived from the root of *Peucedanum praeruptorum* Dunn, has been widely used as an antioxidant and a calcium antagonist to treat diseases, Pra-C partially also protects cortical neurons by inhibiting the expression of GluN2B-containing NMDA receptors and regulating the Bcl-2 family.^[1]

Praeruptorin C can completely inhibit SMC proliferation induced by Ang II and partly inhibit the growth of SMC- induced by bovine serum, which is important in prevention and treatment of vascular hyperplastic disease.^[2]

Praeruptorin C can attenuate the level of NCX mRNA , has cardioprotective effect on NCX mediates during ischemia/reperfusion in the neonatal rat cardiomyocytes I/R model; cardioprotection induced by hypoxia preconditioning and praeruptorin C preconditioning against hypoxia-reoxygenation injury may be related with upregulating phospholamban phosphorylation.^[3,4]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Methanol : H₂O=72:28;

Flow rate: 1.0 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] Yang L, Li X B, Yang Q, *et al. Toxicol in Vitro*, 2013, 27(2):908-14.

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[3] Xi Q Y, Zhu B H, Liu C, *et al. Chinese Heart Journal*, 2008(5):513-6.

[4] Chen K X, Zhu B H, Liu C. *Chinese Journal of Geriatric Heart Brain & Vessel Diseases*, 2008, 10(3):210-3.

[5] Xu G B, Liu S J, Liang Y M, *et al. Traditional Chinese Medicine*, 2007, 32 (19): 2069-71.

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