

## Praeruptorin C Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Praeruptorin C

**Catalog No.:** CFN98143

**Cas No.:** 72463-77-5

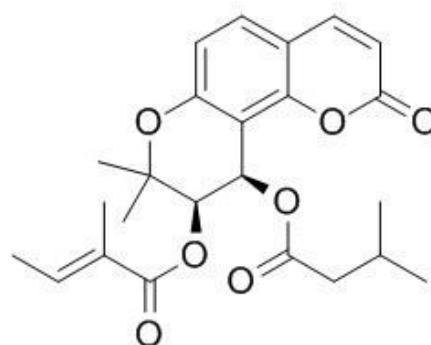
**Purity:** > 98%

**M.F:** C<sub>24</sub>H<sub>28</sub>O<sub>7</sub>

**M.W:** 428.48

**Physical Description:** White cryst.

**Synonyms:** (2Z)-2-Methyl-2-butenioic 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.<sup>[1]</sup>

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.<sup>[2]</sup>

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.<sup>[3,4]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[5]</sup>**

Mobile phase: Methanol : H<sub>2</sub>O=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.

- [2] Wei E H, Rao M R, Chen X Y, *et al. Acta Pharmacol. Sin.*, 2002, 23(2):129-32.
- [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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