

(+)-Praeruptorin A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (+)-Praeruptorin A

Catalog No.: CFN98141

Cas No.: 73069-27-9

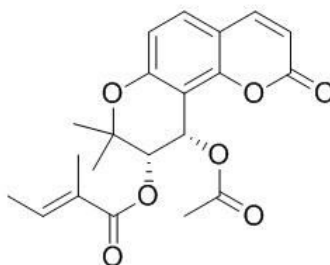
Purity: >=98%

M.F: C₂₂H₂₂O₈

M.W: 414.41

Physical Description: Powder

Synonyms:



[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 A (PA) is a pair of coumarin enantiomers isolated from the root of

Peucedanum praeruptorum Dunn (PPD), a common Chinese herbal medicine for the treatment of asthma, it has anti-inflammatory, anti-contractile and anti-hyperplasia activities, it can significantly suppress airway inflammation and airway remodeling induced by ovalbumin challenge, and is a potential candidate for the treatment of asthma.^[1]

(+)-praeruptorin A exerts distinct relaxant effects on isolated rat aorta rings, which may be mainly attributed to nitric oxide synthesis catalyzed by endothelial nitric oxide synthase.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Methanol- H₂O=75:25 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 321 nm.

[Storage]

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

[References]

[1] Yu P J , Wei C , Wang G F, *et al. Phytother. Res.*, 2011, 25(4):550–6.

[2] Zhao X, Wang X, Yue D, *et al. Chem.Biol. Interact.*, 2010, 186(2):239-46.

[3] Chen Y K, Lu J Q, Luo H B, *et al. Tobacco Science & Technology*, 2007(1):38-42.

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