Natural Products

ChemFaces

(+)-Pteryxin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (+)-Pteryxin

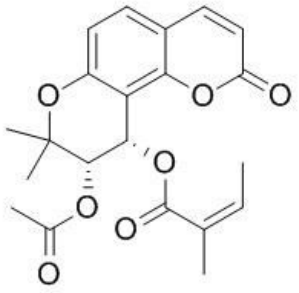
Catalog No.: CFN92559

Cas No.: 13161-75-6

Purity: > 98%

M.F: $C_{21}H_{22}O_7$

M.W: 386.40



Physical Description: Powder

Synonyms: (Z)-2-Methyl-2-butenoic acid[(9R)-9-acetoxy-9,10-dihydro-8,8-dimethyl-2-oxo-2H,8H-benzo[1,2-b:3,4-b']dipyran-10α-yl] ester.

[Intended Use]

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

[Source]

The herbs of *Peucedanum harry-smithii var. subglabrum.*

[Biological Activity or Inhibitors]

Pteryxin, a known compound in Peucedanum japonicum Thunb (PJT), can dose dependently suppress triacylglycerol (TG) content in both 3T3-L1 adipocytes, it plays the key role in regulating the lipid metabolism-related gene network and improving energy production in vitro; thus, pteryxin can be a new natural compound to be used as an antiobesity drug in the pharmaceutical industry.[1]

(+)-Pteryxin shows strong antiplatelet aggregation activity in vitro .[2]

[Solvent]

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

[HPLC Method][1]

Mobile phase: 0.5% Formic acid in dichloromethane- Methanol=94.5: 5.0 ;

Flow rate: 2.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 322 nm.

[Storage]

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

[References]

[1] Nugara R N, Inafuku M, Takara K, *et al. Nutrition, 2014, 30(10):1177-84.*

[2] Chen I S, Chang C T, Sheen W S, *et al. Phytochemistry, 1996, 41(2):525-30.*

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