

Intermedine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Intermedine

Catalog No.: CFN00285

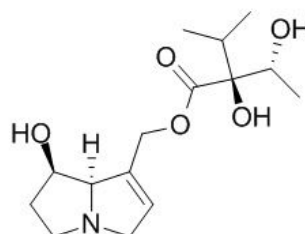
Cas No.: 10285-06-0

Purity: > 95%

M.F: C₁₅H₂₅NO₅

M.W: 299.36

Physical Description: Powder



Synonyms:[(7R,8R)-7-hydroxy-5,6,7,8-tetrahydro-3H-pyrrolizin-1-yl]methyl(2S)-2-hydroxy-2-[(1R)-1-hydroxyethyl]-3-methylbutanoate;Butanoic-acid,2,3-dihydroxy-2-(1-methylethyl)-,((1R,7aR)-2,3,5,7a-tetrahydro-1-hydroxy-1H-pyrrolizin-7-yl)methyl ester,(2S,3R).

[Intended Use]

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

[Source]

The herbs of *Symphytum uplandicum*.

[Biological Activity or Inhibitors]

Intermedin (IMD), a multi-functional peptide, plays important roles in cardiovascular protection, the endogenous IMD and its receptor complexes are induced in hypertrophic cardiomyocytes and proposed to play an important role in the pathogenesis of cardiac hypertrophy, and the autophagy stirred by IMD supplementation is involved in its protection against cardiomyocyte hypertrophy and apoptosis through the activation of both cAMP/PKA and MAPK/ERK1/2 pathways.^[1]

Intermedin can decrease the melanin content of the skin of *Rana pipiens*.^[2]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Chen H, Wang X, Tong M, *et al. Plos One*, 2013, 8(8):e64757.

[2] Frieden E H, Bozer J M. *Proc. Soc. Exp. Biol. Med.*, 1951, 77(1):35-7.

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