

Dihydroberberine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dihydroberberine

Catalog No.: CFN90431

Cas No.: 483-15-8

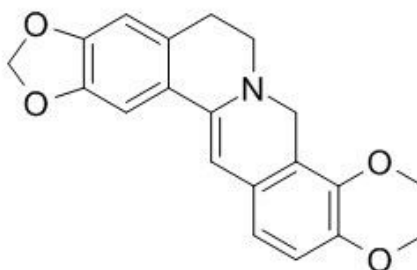
Purity: >=98%

M.F: C₂₀H₁₉NO₄

M.W: 337.36

Physical Description: Cryst.

Synonyms: 9,10-Dimethoxy-5,8-dihydro-6H-[1,3]dioxolo[4,5-g]isoquino[3,2-a]isoquinoline



[Intended Use]

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

[Source]

The tubers of *Corydalis decumbens* (Thunb.) Pers.

[Biological Activity or Inhibitors]

Dihydroberberine displays improved in vivo efficacy in terms of counteracting increased

adiposity, tissue triglyceride accumulation, and insulin resistance in high-fat-fed rodents, it could as a novel therapy for the treatment of type 2 diabetes.^[1]

Dihydroberberine is an inhibitor of pancreatic lipase, it has potential hypolipidemic activities.^[2]

Dihydroberberine can significantly prevent the ST-segment elevation in acute myocardial ischemia , decrease the incidence rate ,shorten the duration of arrhythmia, and prolong the duration of sinus-rhythmia , curtail the period of ventricle arrhythmia elicited by BaCl₂, suggests that dihydroberberine has protective effect on acute myocardial ischemia and arrhythmia. ^[3]

Dihydroberberine, palmatine, berberine ,and jatrorrhizine show significant growth inhibiting effects on *Babesia gibsoni*.^[4]

[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] Turner N, Li J Y, Gosby A, *et al. Diabetes*, 2008, 57(5):1414-8.

[2] Mohammad M, Al-Masri I M, Issa A, *et al. Med. Chem. Res.*, 2013, 22(5):2273-8.

[3] Zhang J, Bao L, Dong X, *et al. Journal of Harbin Medical University*, 1997(2):121-3.

[4] Subeki, Matsuura H, Takahashi K, *et al. J. Vet. Med. Sci.*, 2005, 67(2):223-7.

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