

2,3-Bis(3,4-dimethoxybenzyl)butyrolactone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 2,3-Bis(3,4-dimethoxybenzyl)butyrolactone

Catalog No.: CFN98281

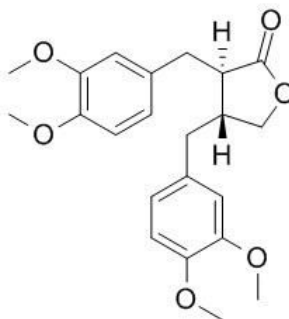
Cas No.: 25488-59-9

Purity: > 95%

M.F: C₂₂H₂₆O₆

M.W: 386.4

Physical Description: Powder



Synonyms: (3R)-3 α ,4 β -Bis(3,4-dimethoxybenzyl)-4,5-dihydrofuran-2(3H)-one;

(3R,4R)-3,4-Bis(3,4-dimethoxybenzyl)tetrahydrofuran-2-one; Arctigenin methyl ether;

Matairesinol dimethyl ether.

[Intended Use]

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

[Source]

The barks of *Pseudolarix kaempferi*.

[Biological Activity or Inhibitors]

trans-2,3-Bis(3,4-dimethoxybenzyl)-gamma-butyrolactone is capable of inhibiting Na⁺, K⁺-ATPase activity with IC₅₀ at a concentration less than 5 x 10⁽⁻⁴⁾ M, it also shows [3H]ouabain displacement activity with IC₅₀ at a concentration of 10⁽⁻⁴⁾-10⁽⁻³⁾ M.^[1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: Methanol -H₂O=45:55;

Flow rate:1.0 ml/min;

Column temperature: 30℃;

The wave length of determination:280 nm.

[Storage]

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

[References]

[1] Hirano T, Oka K, Naitoh T. *Res. Commun. Chem. Pathol. Pharmacol.*, 1989 May;64(2): 227-40.

[2] Sun L X, Liu L X, Yang W W, *et al. Journal of Shenyang Pharmaceutical University*, 2010,27(11):892-3.

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