

Calystegine B4 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Calystegine B4

Catalog No.: CFN00163

Cas No.: 184046-85-3

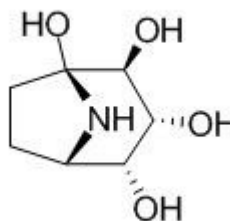
Purity: > 95%

M.F: C₇H₁₃NO₄

M.W: 175.18

Physical Description: Powder

Synonyms: (1R,2S,3R,4R,5R)-8-Azabicyclo[3.2.1]octane-1,2,3,4-tetrol.



[Intended Use]

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

[Source]

The root bark of *Lycium chinense* Mill.

[Biological Activity or Inhibitors]

Calystegine B 4 is a novel trehalase inhibitor from *Scopolia japonica*, with a Ki value of 1.2

microM, but it was almost inactive against yeast and fungal trehalases.^[1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: Acetonitrile- 0. 1% Acetic acid H₂O=50:50 ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Asano N, Kato A, Kizu H, *et al.* *Carbohydr. Res.*, 1996, 293(2):195-204.

[2] Shang L, Ouyang Z, Zhao M, *et al.* *Chinese Journal of Experimental Traditional Medical Formulae*, 2014, 20(2):47-51.

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