

Baogongteng A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Baogongteng A

Catalog No.: CFN00155

Cas No.: 74239-84-2

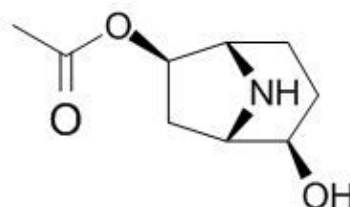
Purity: > 95%

M.F: C₉H₁₅NO₃

M.W: 185.22

Physical Description: Powder

Synonyms: (1R,2S,5R,6S)-2-hydroxy-8-azabicyclo[3.2.1]oct-6-yl acetate.



[Intended Use]

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

[Source]

The herbs of *Erycibe hainanensis* Merr.

[Biological Activity or Inhibitors]

Baogongteng A (BGT-A), a naturally occurring tropane muscarinic agonist isolated from

Chinese medicinal plant, exhibits a bioactive effect different from those of many tropane alkaloids that are muscarinic antagonists.^[1]

Baogongteng A is a new tropane alkaloid used for treating glaucoma, synthetic baogongteng A also shows myotic activities in rabbits, but the potency is half of that of the natural product.^[2]

Baogongteng A and Baogongteng C are the major toxic chemical compounds of the *Erycibe* species. ^[3]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol-0.5% Acetic acid in water, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 345 nm.

[Storage]

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

[References]

[1] Niu Y Y, Yang L M, Liu H Z, *et al. Bioorg. Med. Chem. Lett.*, 2005, 15(21):4814-8.

[2] Xiang Z, Zhou J E, Chen Z N, *et al. Acta Pharm. Sin.*, 1989, 24(2):105-9.

[3] Chen Z, Wang L, Liao L, *et al. Regul. Toxicol. Pharm.* 2014, 70(1):349-56.

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