

Bulleyaconitine A Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Bulleyaconitine A

Catalog No.: CFN99720

Cas No.: 107668-79-1

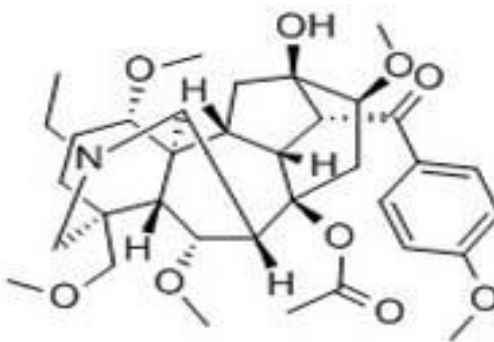
Purity: >=98%

M.F: C₃₅H₄₉NO₉

M.W: 627.78

Physical Description: White powder

Synonyms: 16-Trimethoxy-4-(methoxymethyl)aconitan-14-yl)(4-methoxyphenyl)-y-6; methanone, ((1- α ,6- α ,14- α ,16- β)-8-(acetyloxy)-20-ethyl-13-hydrox-.



[Intended Use]

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

[Source]

The roots of *Aconitum kusnezoffii* Reichb.

[Biological Activity or Inhibitors]

Bulleyaconitine A displays long-acting local anesthetic properties in vitro and in vivo, it has been approved for the treatment of chronic pain and rheumatoid arthritis in China.^[1]

Bulleyaconitine A is an analgesic and antiinflammatory drug, it can elicit long-lasting cutaneous analgesia, when co-injected with lidocaine and epinephrine, as a model for prolonged infiltration anesthesia.^[2]

Bulleyaconitine A has the suppressive effect on some immune function of Balb/c mice.^[3]

Bulleyaconitine A attenuates paclitaxel-induced neuropathic pain and that depression of spinal long-term potentiation at C-fiber synapses via inhibiting presynaptic transmitter release may contribute to the effect.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.2% Triethylamine in water (adjusting pH to 3.1 ± 0.1) with phosphoric acid)-

Acetonitrile=65:35

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 260 nm.

[Storage]

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

[References]

[1] Wang C F, Gerner P, Wang S Y, *et al. Anesthesiology*, 2007, 107(1):82-90.

[2] Wang C F, Gerner P, Schmidt B, *et al. Anesth. Analg.*, 2008, 107(4):1397-405.

[3] Lu Y, Han L, Li H, *et al. Chinese Journal of New Drugs & Clinical Remedies*, 2007, 26(10):755-8.

[4] Zhu H Q, Xu J, Shen K F, *et al. Experimental Neurology*, 2015, 273:263-72.

[5] Xiong Y J, Zi S H, Wu J, *et al. China Pharmacist*, 2013, 16(10):1463-5.

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