

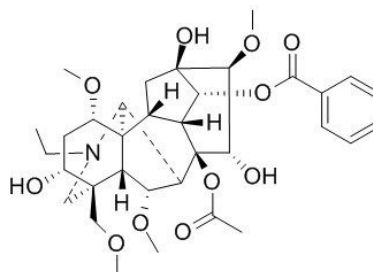
Aconitine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Aconitine**Catalog No.:** CFN99115**Cas No.:** 302-27-2**Purity:** >=98%**M.F:** C₃₄H₄₇NO₁₁**M.W:** 645.74**Physical Description:** Powder

Synonyms: Acetylbenzoylaconine; (3 α ,6 α ,14 α ,15 α ,16 β)-8-(acetyloxy)-20-ethyl-3,13,15-trihydroxy-1,6,16-trimethoxy-4-(methoxymethyl)aconitan-14-yl-benzoate; (3 α ,6 α ,9 α ,10 α ,13 α ,14 α ,15 α ,16 β)-8-(acetyloxy)-20-ethyl-3,13,15-trihydroxy-1,6,16-trimethoxy-4-(methoxymethyl)aconitan-14-yl-benzoate.



[Intended Use]

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

[Source]

The roots of *Aconitum kusnezoffii* Reichb.

[Biological Activity or Inhibitors]

Aconitine, a highly poisonous type of alkaloid, has a widespread effect in stimulating the membranes of cardiomyocyte, it not only induces dephosphorylation of Cx43 and PKC α , but also alters intracellular [Ca²⁺] oscillation patterns in cultured cardiomyocytes.^[1]

Aconitine can induce ventricular tachycardia in dogs, and induce arrhythmias in guinea pigs.^[2,3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile - Ammonium bicarbonate buffer (pH 9.8), gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 232 nm.

[Storage]

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

[References]

[1] Zhang S W, Liu Y, Huang G Z, *et al. Toxicol. in Vitro*, 2007, 21(8):1476-85.

[2] Inoue H, Waller B F, Zipes D P. *J. Am. Coll. Cardiol.*, 1987, 10(6):1342-9.

[3] Amran M S, Hashimoto K, Homma N. *J. Pharm. Exp. Ther.*, 2004, 310(1):83-9.

[4] Joseph E. Jablonski, Joseph E. Schlessner, Purnima Mariappagoudar. *J. Agr. Food Chem.*, 2006, 54(20):7460-5.

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