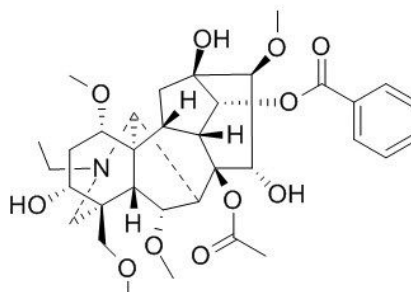


## Aconitine Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Aconitine**Catalog No.:** CFN99915**Cas No.:** 302-27-2**Purity:** >=98%**M.F:** C<sub>34</sub>H<sub>47</sub>NO<sub>11</sub>**M.W:** 645.75**Physical Description:** Powder**Synonyms:** Acetylbenzoylaconine; (3 $\alpha$ , 6 $\alpha$ , 14 $\alpha$ , 15 $\alpha$ , 16 $\beta$ )-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. Others.

### [ Source ]

The roots of *Aconitum kusnezoffii* Reichb.

## **[ Biological Activity or Inhibitors ]**

Aconitine, one of the major Aconitum alkaloids, is a highly toxic compound from the Aconitum species, in the causation of severe arrhythmias leading to death.<sup>[1]</sup>

Aconitine appears to exert a long-lasting cholinergic action which may be involved in the genesis of aconitine-induced atrial fibrillation.<sup>[2]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Acetonitrile-Phosphate buffer( pH 7.4),gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 232 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Wada K, Nihira M, Hayakawa H, *et al. Forensic Sci. Int.*, 2005, 148(1):21-9.

[2] Winslow E. J. *Cardiovasc. Pharmacol.* ,1981,3(1):87-100.

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

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