[ **Product Information** ]

**Name:** Mesaconitine  
**Catalog No.:** CFN99199  
**Cas No.:** 2752-64-9  
**Purity:** > 98%  
**M.F:** C_{33}H_{45}NO_{11}  
**M.W:** 631.71  

**Physical Description:** Yellow powder  

**Synonyms:** 4-(Methoxymethyl)-20-methyl-1α,6α,16β-trimethoxyaconitane-3α,8,13,14α,15α-pentol 8-acetate 14-benzoate.

[ **Intended Use** ]

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

[ **Source** ]

The root of *Aconitum carmichaeli* Debx.
[**Biological Activity or Inhibitors**]

Mesaconitine increases the \([\text{Ca}^{2+}]_{i}\) level in endothelial cells by influx of \(\text{Ca}^{2+}\) from extracellular spaces, suggests that mesaconitine-induced \(\text{Ca}^{2+}\) influx and activation of nitric-oxide synthase in endothelial cells and, thus, induced vasorelaxation in rat aorta.\(^{[1]}\)

Mesaconitine is highly toxic, can inhibit Efflux transporters, including P-glycoprotein (P-gp), breast cancer resistance protein (BCRP), and multidrug resistance-associated protein isoform 2 (MRP2).\(^{[2]}\)

Mesaconitine has antinociceptive activity, has inhibition of stimulus-triggered and spontaneous epileptiform activity in rat hippocampal slices.\(^{[3,4]}\)

Mesaconitine has antiinflammatory activity, can inhibit carrageenin-induced hind-paw edema in sham-operated mice as well as adrenalectomized mice, it do not affect the biosynthesis of the prostaglandins. \(^{[5]}\)

[**Solvent**]

Chloroform, Dichloromethane, DMSO, Acetone.

[**HPLC Method**]\(^{[6]}\)

Mobile phase: Methanol- 10mM Ammonium bicarbonate(pH=9.8 ± 0.2), gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 ˚C;

The wave length of determination: 240 nm.

[**Storage**]

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

[**References**]


[ Contact ]

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