

Lappaconitine (hydrobromide)

Catalog No: tcsc3590



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

97792-45-5

Formula:

$C_{32}H_{45}BrN_2O_8$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Allapinine

Observed Molecular Weight:

665.61

Product Description

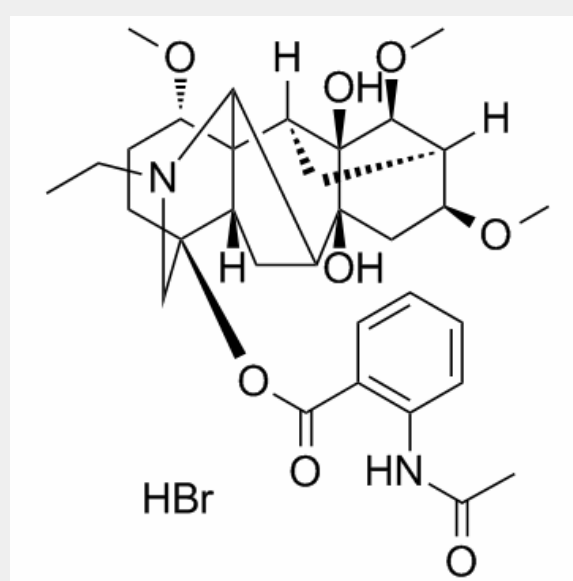
Lappaconitine hydrobromide, a diterpene alkaloid, is a drug for the treatment of cardiac arrhythmias.

IC50 value:

Target: A natural product for anti-cardiac arrhythmias

In vitro: Lappaconitine hydrobromide was found to exert an inhibitory effect on inward tetrodotoxin-sensitive sodium currents without changing their voltage dependence [1].

In vivo: The effect of Lappaconitine hydrobromide on aconitine--induced arrhythmias is due to modulation of genes encoding Na(+)-, K(+)-, Ca(2+)-channels, conducting ionic currents (I(Na), I(to), I(Ks), I(K1), I(CaT)), which are involved in the formation of different phases of the action potential [2]. Lappaconitine hydrobromide was found to be beneficial both in ventricular and supraventricular premature beats. Oral allapinine usually showed its effect 40-60 minutes following its administration, its maximum action being 4-5 hours later, its duration was some 8 hours. The optimal dose of the drug amounted to 75 mg/day [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!