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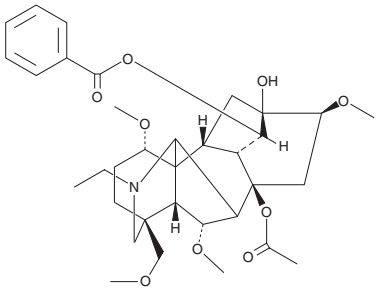
PRODUCT INFORMATION

3-Deoxyaconitine

Item No. 36151

CAS Registry No.:	3175-95-9
Formal Name:	20-ethyl-1α,6α,16β-trimethoxy-4-(methoxymethyl)-aconitane-8,13,14α,15α-tetrol, 8-acetate 14-benzoate
Synonym:	Deoxyaconitine
MF:	$C_{34}H_{47}NO_{10}$
FW:	629.7
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Aconitum carmichaelii* Debx



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

3-Deoxyaconitine is supplied as a solid. A stock solution may be made by dissolving the 3-deoxyaconitine in the solvent of choice, which should be purged with an inert gas. 3-Deoxyaconitine is soluble in DMSO.

Description

3-Deoxyaconitine is a diterpene alkaloid that has been found in *A. kusnezoffii*.[1-3] It induces spasms in isolated rabbit small intestine (EC_{50} = 100 nM).[2] 3-Deoxyaconitine (0.375 mg/kg) also enhances lidocaine-induced sensory loss, weight-bearing capacity, and partial paralysis in rabbits.[3]

References

1. Wang, Y., Song, F., Xu, Q., *et al.* Characterization of aconitine-type alkaloids in the flowers of Aconitum kusnezoffii by electrospray ionization tandem mass spectrometry. *J. Mass. Spectrom.* **38(9)**, 962-970 (2003).
2. Dzhakhangirov, F.N., Tursunkhodzhaeva, F.M., Sultankhodzhaev, M.N., *et al.* Spasmolytic activity of diterpenoid alkaloids and their derivatives. Structure-activity relationship. *Chem. Nat. Compd.* **49(4)**, 702-706 (2013).
3. Komoda, Y., Nosaka, S., and Takenoshita, M. Enhancement of lidocaine-induced epidural anesthesia by deoxyaconitine in the rabbit. *J. Anesth.* **17(4)**, 241-245 (2003).

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