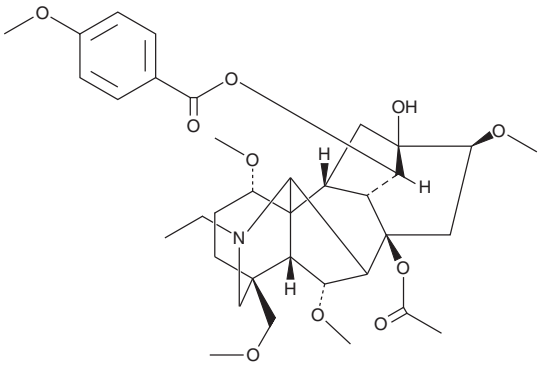
PRODUCT INFORMATION

Crassicauline A

Item No. 34674

CAS Registry No.:	79592-91-9
Formal Name:	(1α,6α,14α,16β)-20-ethyl-1,6,16-trimethoxy-4-(methoxymethyl)-aconitane-8,13,14-triol, 8-acetate 14-(4-methoxybenzoate)
Synonym:	3-Deoxyyunaconitine
MF:	$C_{35}H_{49}NO_{10}$
FW:	643.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 258 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Aconitum transsectum*



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

Laboratory Procedures

Crassicauline A is supplied as a solid. A stock solution may be made by dissolving the crassicauline A in the solvent of choice, which should be purged with an inert gas. Crassicauline A is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of crassicauline A in these solvents is approximately 5, 10, and 25 mg/ml, respectively.

Crassicauline A is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, crassicauline A should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Crassicauline A has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Crassicauline A is a diterpene alkaloid originally isolated from *A. crassicaule* that has analgesic activity.[1,2] It inhibits acetic acid-induced writhing in mice (ED_{50} = 0.048 mg/kg) and induces lethality in mice when administered at doses greater than 0.92 mg/kg.[2]

References

1. Fengpeng, W. and Qicheng, F. Alkaloids from roots of Aconitum crassicaule. *Planta Med.* **42(8)**, 375-379 (1981).
2. Wang, J.-L., Shen, X.-L., Chen, Q.-H., *et al.* Structure–analgesic activity relationship studies on the C_{18}- and C_{19}-diterpenoid alkaloids. *Chem. Pharmaceut. Bull.* **57(8)**, 801-807 (2009).

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