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DATASHEET

Methyllycaconitine citrate (MLA)

Product overview

Name	Methyllycaconitine citrate (MLA)
Cat No	HB2026
Alternative names	MLA
Biological action	Antagonist
Purity	>95%
Description	Potent, selective α7 nicotinic receptor antagonist

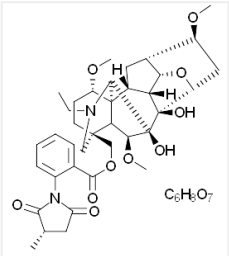
Biological Data

Biological description	Potent and selective α7 nicotinic receptor antagonist (K_i = 1.4 nM). Shows protective effects against amyloid beta cytotoxicity. Active *in vivo*.

Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in water (100 mM) and in DMSO (100 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	[1α,4(*S*),6β,14α,16β]-20-Ethyl-1,6,14,16 -tetramethoxy-4-[[[2-(3-methyl-2,5-dioxo-1-pyrrolidinyl)benzoyl]oxy]methyl]aconitane-7,8-diol citrate
Molecular Weight	874.93
Chemical structure	
Molecular Formula	$C_{37}H_{50}N_2O_{10}.C_6H_8O_7$
CAS Number	112825-05-5
PubChem identifier	124081005
SMILES	CCN1C[C@]2(CC[C@H]([C@@]34[C@@H]2[C@@H]([C@@]([C@@H]31)([C@@]5(C[C@@H]([C@H]6C[C@@H]4[C@@H]5[C@H]6OC)OC)O)O)OC)OC)COC(=O)C7=CC=CC=C7N8C(=O)C[C@H](C8=O)C.C(C(=O)O)C(CC(=O)O)(C(=O)O)O
Source	Delphinium ajacis
InChi	InChI=1S/C37H50N2O10.C6H8O7/c1-7-38-17-34(18-49-32(42)20-10-8-9-11-23(20)39-26(40)14-19(2)31(39)41)13-12-25(46-4)36-22-15-21-24(45-3)16-35(43,27(22)28(21)47-5)37(44,33(36)38)30(48-6)29(34)36;7-3(8)1-6(13,5(11)12)2-4(9)10/h8-11,19,21-22,24-25,27-30,33,43-4
InChiKey	INBLZNJHDLEWPS-OXVGBIBJSA-N
MDL number	MFCD00153837