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DATASHEET

Reserpine

Product overview

Name	Reserpine
Cat No	HB1895
Biological action	Blocker
Purity	>99%
Description	Vesicular monoamine re-uptake blocker

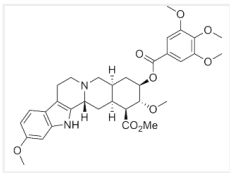
Biological Data

Biological description	Vesicular monoamine re-uptake blocker. Irreversibly binds VMAT2 to deplete synaptic monoamines. Produces depression-like effects and shows antipsychotic and antihypertensive effects.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (10 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	(3β,16β,17α,18β,20α)-11,17-Dimethoxy-18- [(3,4,5-trimethoxybenzoyl)oxy]yohimban-16-carboxylic acid methyl ester
Molecular Weight	608.68
Chemical structure	
Molecular Formula	C ₃₃ H ₄₀ N ₂ O ₉
CAS Number	50-55-5
PubChem identifier	5770
SMILES	CO[C@H]1[C@@H](C[C@@H]2CN3CCC4=C([C@H]3C[C@@H]2[C@@H]1C(=O)OC)NC5=C4C=CC(=C5)OC)OC(=O)C6=CC(=C(C(=C6)OC)OC)OC
InChi	InChI=1S/C33H40N2O9/c1-38-19-7-8-20-21-9-10-35-16-18-13-27(44-32(36)17-11-25(39-2)30(41-4)26(12-17)40-3)31(42-5)28(33(37)43-6)22(18)15-24(35)29(21)34-23(20)14-19/h7-8,11-12,14,18,22,24,27-28,31,34H,9-10,13,15-16H2,1-6H3/t18-,22+,24-,27-,28+,31+/m1/s1
InChiKey	QEVHRUUCFGRFIF-MDEJGZGSSA-N
MDL number	MFCD00005091

References

Radioligands of the vesicular monoamine transporter and their use as markers of monoamine storage vesicles.

Henry JP *et al* (1989) *Biochem Pharmacol* 38(15)

PubMedID

2667522

Reserpine binding to a vesicular amine transporter expressed in Chinese hamster ovary fibroblasts.

Schuldiner S *et al* (1993) J Biol Chem 268(1)

PubMedID

8416935

Antidepressant-like effect of tetrahydroisoquinoline amines in the animal model of depressive disorder induced by repeated administration of a low dose of reserpine: behavioral and neurochemical studies in the rat.

Antkiewicz-Michaluk L *et al* (2014) Neurotox Res 26(1)

PubMedID

24407488
