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DATASHEET

Tetrabenazine

Product overview

Name	Tetrabenazine
Cat No	HB1711
Biological action	Inhibitor
Purity	>98%
Description	Potent inhibitor of vesicular monoamine transport; depletes 5-HT stores

Biological Data

Biological description	Potent inhibitor of vesicular monoamine uptake; depletes stores of dopamine, serotonin and noradrenalin. Binds with high affinity (IC_{50}= 3.2 nM) to vesicular monoamine transporter (VMAT) in chromaffin granule membranes and displays higher affinity for VMAT2 than VMAT1. Also reported to block dopamine receptors. Causes behavioral depression; inhibits locomotor activity and produces hypothermia upon systemic administration in rats and mice.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in ethanol (30mM) or DMSO (100mM)
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	(3*R*,11b*R*)-*rel*-1,3,4,6,7,11b-hexahyd ro-9,10-dimethoxy-3-(2-methylpropyl)-2*H*-benzo[*a*]qu inolizin-2-one
Molecular Weight	317.2
Chemical structure	
Molecular Formula	$C_{19}H_{27}NO_3$
CAS Number	58-46-8
PubChem identifier	11634155
SMILES	O=C3[C@@H](CC(C)C)CN2CCC1=CC(OC)=C(OC)C=C1[C@@]([H])2C3
InChi	InChI=1S/C19H27NO3/c1-12(2)7-14-11-20-6-5-13-8-18(22-3)19(23-4)9-15(13)16(20)10-17(14)21/h8-9,12,14,16H,5-7,10-11H2,1-4H3
InChiKey	MKJIEFSOBYUXJB-HOCLYGCPSA-N
MDL number	MFCD08461052