

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



## DATASHEET

### Tetrabenazine

#### Product overview

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

#### Biological Data

<b>Biological description</b>	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

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in ethanol (30mM) or DMSO (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

#### Chemical Data

<b>Chemical name</b>	(3 <i>R</i> ,11 <i>bR</i> )- <i>rel</i> -1,3,4,6,7,11 <i>b</i> -hexahydro-9,10-dimethoxy-3-(2-methylpropyl)-2 <i>H</i> -benzo[ <i>a</i> ]quinolizin-2-one
<b>Molecular Weight</b>	317.2
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>19</sub> H <sub>27</sub> NO <sub>3</sub>
<b>CAS Number</b>	58-46-8
<b>PubChem identifier</b>	11634155
<b>SMILES</b>	O=C3[C@@H](CC(C)C)CN2CCC1=CC(OC)=C(OC)C=C1[C@@]([H])2C3
<b>InChi</b>	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
<b>InChiKey</b>	MKJIEFSOBYUXJB-HOCLYGCPSA-N
<b>MDL number</b>	MFCD08461052