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## 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>             | <chem>O=C3[C@@H](CC(C)C)CN2CCC1=CC(OC)=C(OC)C=C1[C@@]([H])2C3</chem>  |
| <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  |