

## Product Datasheet

### Tetrandrine (orb1304758)

<b>Catalog Number</b>	orb1304758
<b>Category</b>	Small Molecules
<b>Description</b>	Tetrandrine is a natural bisbenzylisoquinoline alkaloid that acts as a calcium channel blocker, inhibiting both voltage-gated calcium channels and Ca <sup>2+</sup> -activated potassium channels. It is widely used in pharmacological research, including in vitro ion channel studies and in vivo models for investigating cardiovascular and anti-inflammatory pathways.
<b>Target</b>	Potassium Channel,Parasite,Calcium Channel
<b>Purity</b>	99.94% (May vary between batches)
<b>MW</b>	622.75
<b>Target Areas</b>	Potassium Channel Calcium Channel Parasite
<b>Solubility (25°C)</b>	10% DMSO+40% PEG300+5% Tween 80+45% Saline:0.7 mg/mL (1.12 mM);DMSO:12.45 mg/mL (19.99 mM)
<b>CAS Number</b>	518-34-3
<b>Formula</b>	C <sub>38</sub> H <sub>42</sub> N <sub>2</sub> O <sub>6</sub>
<b>SMILES</b>	<chem>O(C)C1=C2C=3[C@](CC=4C=C(C(OC)=CC4)OC=5C=CC(C[C@]6(C7=CC(O2)=C(OC)C=C7CCN6C)[H])=CC5)(N(C)CCC3C=C1OC)[H]</chem>
<b>Storage</b>	store at low temperature   Powder: -20°C for 3 years   In solvent: -80°C for 1 year   Shipping with blue ice/Shipping at ambient temperature.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)