

## Product Information

### Tiotropium bromide

**Cat. No.:** X23-12-YM100

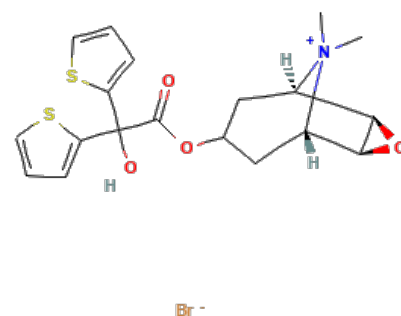
**Size:** 10 mg; 50 mg; 100 mg; 200 mg

**CAS Number:** 136310-93-5

**PubChem CID:** 5487426

**Synonym:** 136310-93-5; BA679 BR; BA 679

**This product is for research use only and is not intended for diagnostic use.**



### Product Information

<b>Description</b>	Tiotropium bromide, soluble in DMSO and insoluble in water and ethanol, interferes with or suppresses the transmission of signals between neurons in the nervous system.
<b>Molecular Weight</b>	472.42
<b>Molecular Formula</b>	C <sub>19</sub> H <sub>22</sub> BrNO <sub>4</sub> S <sub>2</sub>
<b>IUPAC Name</b>	[(1 <i>R</i> , 2 <i>R</i> , 4 <i>S</i> , 5 <i>S</i> )-9, 9-Dimethyl-3-oxa-9-azoniatricyclo[3.3.1.0 <sup>2,4</sup> ]nonan-7-yl] 2-hydroxy-2, 2-dithiophen-2-ylacetate;bromide
<b>InChI</b>	InChI=1S/C19H22NO4S2.BrH/c1-20(2)12-9-11(10-13(20)17-16(12)24-17)23-18(21)19(22, 14-5-3-7-25-14)15-6-4-8-26-15;/h3-8, 11-13, 16-17, 22H, 9-10H2, 1-2H3;1H/q+1;/p-1/t11?, 12-, 13+, 16-, 17+;
<b>InChI Key</b>	DQHNAVOVODVIMG-RGECMCKFSA-M
<b>Canonical SMILES</b>	C[N+](C2CC(CC1C3C2O3)OC(=O)C(C4=CC=CS4)(C5=CC=CS5)O)C.[Br-]
<b>Isomeric SMILES</b>	C[N+](C[C@@H]2CC(C[C@H]1[C@H]3[C@@H]2O3)OC(=O)C(C4=CC=CS4)(C5=CC=CS5)O)C.[Br-]
<b>Form</b>	Lyophilized powder
<b>Purity</b>	>98%
<b>Solubility</b>	DMSO: 8 mg/mL (16.31 mM); Water: insoluble; Ethanol: insoluble
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Applications</b>	Tiotropium bromide can be studied extensively for its potential ability to reduce symptoms such as shortness of breath and wheezing and to prevent exacerbations.
<b>Storage</b>	Store at -20°C, and keep desiccated.



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