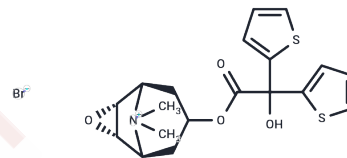


## Tiotropium bromide

## Chemical Properties

CAS No. :	136310-93-5
Formula:	C <sub>19</sub> H <sub>22</sub> BrNO <sub>4</sub> S <sub>2</sub>
Molecular Weight:	472.42
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Tiotropium bromide (BA679 BR) is a long-acting, 24 hour, anticholinergic bronchodilator used in the management of chronic obstructive pulmonary disease (COPD). Tiotropium is a muscarinic receptor antagonist, on topical application it acts mainly on M3 muscarinic receptors located in the airways to produce smooth muscle relaxation, thus producing a bronchodilatory effect.
Targets(IC50)	AChR

## Solubility Information

Solubility	DMSO: 55 mg/mL (116.42 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1168 mL	10.5838 mL	21.1676 mL
5 mM	0.4234 mL	2.1168 mL	4.2335 mL
10 mM	0.2117 mL	1.0584 mL	2.1168 mL
50 mM	0.0423 mL	0.2117 mL	0.4234 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Hansel TT, Barnes PJ. Drugs Today (Barc). 2002 Sep;38(9):585-600.

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