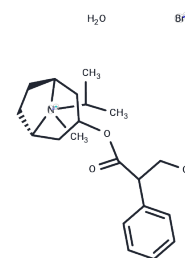


## Ipratropium bromide monohydrate

## Chemical Properties

CAS No. :	66985-17-9
Formula:	C <sub>20</sub> H <sub>32</sub> BrNO <sub>4</sub>
Molecular Weight:	430.38
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Ipratropium bromide monohydrate (Ipratropium bromide hydrate) is a muscarinic antagonist structurally related to ATROPINE but often considered safer and more effective for inhalation use. It is used for various bronchial disorders, in rhinitis, and as an antiarrhythmic.
Targets(IC50)	AChR
Kinase Assay	VEGFR enzyme assays for VEGFR1, VEGFR2, and VEGFR3 are run in homogeneous time-resolved fluorescence (HTRF) format in 384-well microtiter plates using a purified, baculovirus-expressed glutathione-S-transferase (GST) fusion protein encoding the catalytic c-terminus of human VEGFR receptor kinases 1, 2, or 3. Reactions are initiated by the addition of 10 µL of activated VEGFR2 kinase solution [final concentration, 1 nM enzyme in 0.1 M 4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid (HEPES), pH 7.5, containing 0.1 mg/mL bovine serum albumin (BSA), 300 µM dithiothreitol (DTT)] to 10 µL substrate solution [final concentration, 360 nM peptide, (biotin-aminoethyl-EEEEYFELVAKKKK-NH <sub>2</sub> ), 75 µM ATP, 10 µM MgCl <sub>2</sub> ], and 1 µL of titrated compound in DMSO. Plates are incubated at room temperature for 60 min, and then the reaction is quenched by the addition of 20 µL of 100 mM ethylene diamine tetraacetic acid (EDTA). After quenching, 20 µL HTRF reagents (final concentration, 15 nM Streptavidin-linked allophycocyanin, 1 nM Europium-labeled antiphosphotyrosine antibody diluted in 0.1 mg/mL BSA, 0.1 M HEPES, pH 7.5) is added and the plates incubated for a minimum of 10 min. The fluorescence at 665 nM is measured with a Wallac Victor plate reader using a time delay of 50 µs[1].

## Solubility Information

Solubility	Ethanol: 200 mM, Sonication is recommended. DMSO: 55 mg/mL (127.79 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	2.3235 mL	11.6176 mL	23.2353 mL
5 mM	0.4647 mL	2.3235 mL	4.6471 mL
10 mM	0.2324 mL	1.1618 mL	2.3235 mL
50 mM	0.0465 mL	0.2324 mL	0.4647 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

Wellington K. Treat Respir Med. 2005; 4(3):215-20; discussion 221-2.

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