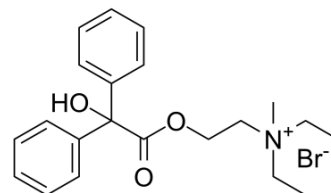


## Methylbenactyzium Bromide

<b>Cat. No.:</b>	HY-B2070		
<b>CAS No.:</b>	3166-62-9		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>28</sub> BrNO <sub>3</sub>		
<b>Molecular Weight:</b>	422.36		
<b>Target:</b>	mAChR		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 6 mg/mL (14.21 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3676 mL	11.8382 mL	23.6765 mL
5 mM	0.4735 mL	2.3676 mL	4.7353 mL
10 mM	0.2368 mL	1.1838 mL	2.3676 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Methylbenactyzium Bromide is a muscarinic acetylcholine receptor (mAChR) inhibitor.
<b>IC<sub>50</sub> &amp; Target</b>	mAChR <sup>[1]</sup>
<b>In Vitro</b>	Methylbenactyzium Bromide is a muscarinic acetylcholine receptor (mAChR) inhibitor <sup>[1]</sup> . Methylbenactyzium bromide has been used as a spasmolytic for the treatment of gastrointestinal ulcer <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Bhattacharjee AK, et al. Discovery of subtype selective muscarinic receptor antagonists as alternatives to atropine using in silico pharmacophore modeling and virtual screening methods. *Bioorg Med Chem*. 2013 May 1;21(9):2651-62.

[2]. Nishikawa M, et al. Analysis of methylbenactyzium bromide in human urine by thin-layer chromatography and pyrolysis gas chromatography. *Forensic Sci Int*. 1991

**Caution: Product has not been fully validated for medical applications. For research use only.**

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