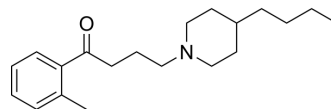


## AC-42

Cat. No.:	HY-118806
CAS No.:	244291-63-2
Molecular Formula:	C <sub>20</sub> H <sub>31</sub> NO
Molecular Weight:	301.47
Target:	mAChR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

### Description

AC-42 is a potent M1 muscarinic selective allosteric agonist with EC<sub>50</sub>s of 805 nM and 220 nM for human wild-type and Y381A mutated M1 receptors, respectively<sup>[1]</sup>.

## REFERENCES

[1]. Marlene A Jacobson, et al. The M1 muscarinic receptor allosteric agonists AC-42 and 1-[1'-(2-methylbenzyl)-1,4'-bipiperidin-4-yl]-1,3-dihydro-2H-benzimidazol-2-one bind to a unique site distinct from the acetylcholine orthosteric site. *Mol Pharmacol.* 2010 Oct;78(4):648-57.

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

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