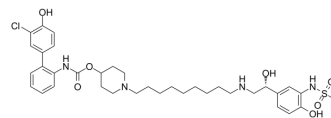


## PF-4348235

Cat. No.:	HY-148525
CAS No.:	1017857-38-3
Molecular Formula:	C <sub>36</sub> H <sub>49</sub> ClN <sub>4</sub> O <sub>7</sub> S
Molecular Weight:	717.31
Target:	mAChR; Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	<p>β2AR/M-receptor agonist-2 (compound 15) is a muscarinic antagonist and β2 adrenoceptor agonist (MABA). β2AR/M-receptor agonist-2 shows potency to β2 adrenoceptor with an EC<sub>50</sub> value of 3.7 nM. β2AR/M-receptor agonist-2 also has potency to human cloned M3 receptor with a K<sub>i</sub> value of 0.73 nM. β2AR/M-receptor agonist-2 is a potent bronchodilator, it can be used for the research of chronic obstructive pulmonary disease (COPD)<sup>[1]</sup>.</p>
<b>In Vivo</b>	<p>β2AR/M-receptor agonist-2 dose-dependently inhibits methacholine-induced bronchoconstriction in dogs with an ID<sub>50</sub> value of 50 mg<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Laura Hilton, et al. Optimized glucuronidation of dual pharmacology β-2 agonists/M3 antagonists for the treatment of COPD. MedChemComm. 2011.

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

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