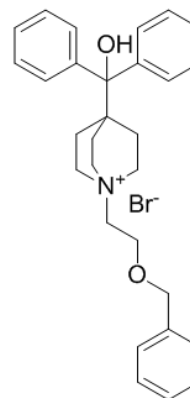


**Product Name** : Umeclidinium bromide  
**Cat. No.** : PC-42894  
**CAS No.** : 869113-09-7  
**Molecular Formula** : C<sub>29</sub>H<sub>34</sub>BrNO<sub>2</sub>  
**Molecular Weight** : 508.4897  
**Target** : mAChR  
**Solubility** : DMSO: ≥ 34 mg/mL



## Biological Activity

Umeclidinium bromide (GSK 573719A) is potent, long-acting, inhaled antagonist of mAChRs with  $K_i$  of 0.05-0.16 nM for human M1-M5 mAChRs; demonstrates picomolar potency ( $-\log pA_2=23.9$  pM) in an acetylcholine-mediated Ca(2+) mobilization assay in CHO cells transfected M3 mAChRs; dose dependently blocks Ach-induced bronchoconstriction with long duration of action in mice model of pulmonary diseases.

COPD

Approved

## References

Salmon M, et al. J Pharmacol Exp Ther. 2013 May;345(2):260-70.

Tal-Singer R, et al. Eur J Pharmacol. 2013 Feb 15;701(1-3):40-8.

Decramer M, et al. Respir Physiol Neurobiol. 2013 Jan 15;185(2):393-9.

Decramer M, et al. Lancet Respir Med. 2014 Jun;2(6):472-86.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com