

Product Datasheet

Batefenterol Succinate

Catalog No. **BP-02111** · CAS **945905-37-3** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-14**

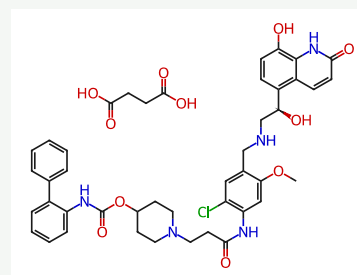
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Target Adrenergic Receptor; mAChR	Research area Neurological Disease
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Molecular formula **C₄₄H₄₈ClN₅O₁₁**

Molecular weight **858.3320**

STRUCTURE



DESCRIPTION

Batefenterol (GSK961081;TD-5959) is a novel muscarinic receptor antagonist and β 2-adrenoceptor agonist; displays high affinity for hM2, hM3 muscarinic and h β 2-adrenoceptor with Ki values of 1.4, 1.3 and 3.7 nM, respectively.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Hegde SS, et al. Pharmacologic characterization of GSK-961081 (TD-5959), a first-in-class inhaled bifunctional bronchodilator possessing muscarinic receptor antagonist and β 2-adrenoceptor agonist properties. J Pharmacol Exp Ther. 2014 Oct;351(1):190-9.
- [2]. Randomized dose-finding study of batefenterol via dry powder inhaler in patients with COPD.
- [3]. Hughes AD, et al. Discovery of (R)-1-(3-((2-chloro-4-(((2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-5-methoxyphenyl)amino)-3-oxopropyl)piperidin-4-yl [1,1'-biphenyl]-2-ylcarbamate (TD-5959, GSK961081, batefenterol): first-in-class dual pharmacology multivalent muscarinic antagonist and β ? agonist (MABA) for the treatment of chronic obstructive pulmonary disease (COPD). J Med Chem. 2015 Mar 26;58(6):2609-22.