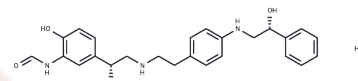


Milveterol HCl

Chemical Properties

CAS No. :	804518-03-4
Formula:	C ₂₅ H ₃₀ ClN ₃ O ₄
Molecular Weight:	471.98
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Milveterol HCl is a long-acting $\beta(2)$ -adrenergic receptor agonist for the potential treatment of chronic obstructive pulmonary disease (COPD).
Targets(IC50)	Adrenergic Receptor
In vivo	Milveterol (10, 15, and 20 μ g; inhaled) showed comparable bronchodilator activity on the 14th day of treatment.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (105.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1187 mL	10.5937 mL	21.1873 mL
5 mM	0.4237 mL	2.1187 mL	4.2375 mL
10 mM	0.2119 mL	1.0594 mL	2.1187 mL
50 mM	0.0424 mL	0.2119 mL	0.4237 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Cazzola M, et al. Novel bronchodilators in asthma[J]. Current opinion in pulmonary medicine, 2010, 16(1): 6-12.
- Jacobsen JR, et al. Multivalent design of long-acting $\beta(2)$ -adrenoceptor agonists incorporating biarylamines. Bioorg Med Chem Lett. 2014;24(12):2625-2630.
- Jacobsen JR, et al. A multivalent approach to the discovery of long-acting $\beta(2)$ -adrenoceptor agonists for the treatment of asthma and COPD. Bioorg Med Chem Lett. 2012;22(2):1213-1218.
- Montuschi P, et al. Bronchodilating drugs for chronic obstructive pulmonary disease: current status and future trends. J Med Chem. 2015;58(10):4131-416

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481