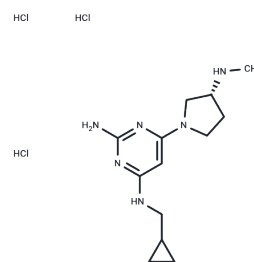


Adriforant hydrochloride

Chemical Properties

CAS No. : 2096455-90-0
 Formula: C₁₃H₂₅Cl₃N₆
 Molecular Weight: 371.74
 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 | Adriforant hydrochloride is an antagonist of histamine H4 receptor. |
| Targets(IC50) | Others,Histamine Receptor |
| In vitro | Adriforant in vitro IC50 on human native isolated eosinophils assessing actin polymerisation is 1.16 nM and assuming need 10 times the IC50 for >90% receptor occupancy (and therefore near complete inhibition of the response) suggested a concentration of 12 nM. The data in the whole blood GAFS assay demonstrates that the imetit induced shape change is completely blocked at a total blood concentration of 30 nM (which correcting for PPB and blood partitioning equates to approximately 10 nM free). For the purpose of dose projection and safety margin calculation, a Ce _{eff} /C _{min} concentration of 10-15 nM is used |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 83.33 mg/mL (224.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.6901 mL | 13.4503 mL | 26.9005 mL |
| 5 mM | 0.538 mL | 2.6901 mL | 5.3801 mL |
| 10 mM | 0.269 mL | 1.345 mL | 2.6901 mL |
| 50 mM | 0.0538 mL | 0.269 mL | 0.538 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

Mowbray CE, et al. Challenges of drug discovery in novel target space. The discovery and evaluation of PF-3893787: a novel histamine H4 receptor antagonist. *Bioorg Med Chem Lett*. 2011 Nov 1;21(21):6596-602.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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