
Product Data Sheet

Product Name: Antihistamine-1

Cat. No.: GC31141

Chemical Properties

Cas. No. 1186430-60-3

SMILES CC1=CN(C2CCN(C3=NC4=CC=CC=C4N3CC5=CC=C(F)C=C5)CC2)N=C1

Formula $C_{23}H_{24}FN_5$ M.Wt 389.47

Solubility Soluble in DMSO Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

Background

Antihistamine-1 is a H1-antihistamine ($K_i=6.9$ nM) with acceptable blood-brain barrier penetration and also an inhibitor of CYP2D6 and hERG channel with IC_{50} s of 5.4 and 0.8 μM , respectively.

Antihistamine-1 (Compound 2) is a H1-antihistamine ($K_i=6.9$ nM) with acceptable blood-brain barrier penetration and also an inhibitor of CYP2D6 and hERG channel with IC_{50} s of 5.4 and 0.8 μM , respectively[1].

[1]. Lavrador-Erb K, et al. The discovery and structure-activity relationships of 2-(piperidin-3-yl)-1H-benzimidazoles as selective, CNS penetrating H1-antihistamines for insomnia. *Bioorg Med Chem Lett.* 2010 May 1;20(9):2916-9.

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

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