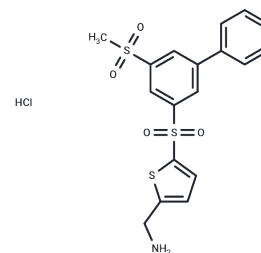


CCT365623 hydrochloride

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2126136-98-7 |
| Formula: | C ₁₈ H ₁₈ ClNO ₄ S ₃ |
| Molecular Weight: | 443.99 |
| 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 | CCT365623 hydrochloride is an orally active lysyl oxidase (LOX) inhibitor with an IC ₅₀ of 0.89 μM and suppresses EGFR (pY1068) and AKT phosphorylation induced by EGF. |
| Targets(IC ₅₀) | EGFR,Akt,Lipoxygenase,Monoamine Oxidase,TGF-beta/Smad |
| In vitro | CCT365623 inhibits LOX at approximately 5 μM in the biosensor system. CCT365623 (0-40 μM) decreases surface EGFR protein levels in a concentration-dependent manner, disrupts HTRA1 multimerization, activates [TGFβ1] signaling, suppresses MATN2 expression, and reduces EGFR surface retention and signaling. At 5 μM, CCT365623 decreases pY1068 EGFR, pAKT, and MATN2 protein levels, while increasing pSMAD2 protein levels. |
| In vivo | CCT365623 (70 mg/kg, oral gavage per day) significantly delays the development of the primary tumors and also suppresses metastatic lung burden in the animals. CCT365623 disrupts EGFR cell surface retention and delays the growth of primary and metastatic tumor cells. CCT365623 exhibits a T _{1/2} P _O of 0.6 h and F% (oral bioavailability) of 45%. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 2.2523 mL | 11.2615 mL | 22.523 mL |
| 5 mM | 0.4505 mL | 2.2523 mL | 4.5046 mL |
| 10 mM | 0.2252 mL | 1.1262 mL | 2.2523 mL |
| 50 mM | 0.045 mL | 0.2252 mL | 0.4505 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

Tang H, et al. Author Correction: Lysyl oxidase drives tumour progression by trapping EGF receptors at the cell surface. Nat Commun. 2019 Jul 18;10(1):3151.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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