

CRT0273750

Chemical Properties

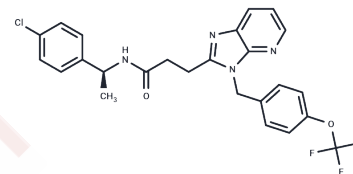
CAS No. : 1979939-16-6

Formula: C₂₅H₂₂ClF₃N₄O₂

Molecular Weight: 502.92

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 | CRT0273750 regulates plasma LPA levels and is suitable for in vivo studies. CRT0273750 is an autotaxin (ATX) inhibitor with IC ₅₀ of 0.014 μM. |
| Targets(IC ₅₀) | LPL Receptor,PDE |
| In vitro | CRT0273750 is also shown to inhibit the migration of 4T1 cells with an EC ₅₀ of 0.025μM [1]. CRT0273750 shows high potency in both the biochemical (IC ₅₀ = 0.01 μM) and plasma choline release assay(IC ₅₀ = 0.014 μM)[1]. |
| In vivo | CRT0273750 treatment shows the C _{max} , AUC and t _{1/2} values of 3.8 μM, 3.2 μM.h and 1.4 h, respectively and shows a proportional increase[1].CRT0273750 has a moderate blood clearance, with value of 41 mL/min/kg[1]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 200 mg/mL (397.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (6.56 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.9884 mL | 9.9419 mL | 19.8839 mL |
| 5 mM | 0.3977 mL | 1.9884 mL | 3.9768 mL |
| 10 mM | 0.1988 mL | 0.9942 mL | 1.9884 mL |
| 50 mM | 0.0398 mL | 0.1988 mL | 0.3977 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

Shah P, et al. Discovery of potent inhibitors of the lysophospholipase autotaxin. *Bioorg Med Chem Lett*. 2016 Nov 15;26(22):5403-5410.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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