

CRT-0105950

Chemical Properties

CAS No. : 1661845-86-8

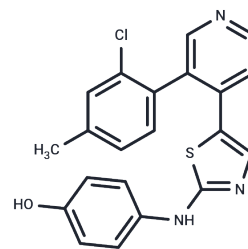
Formula: C₂₁H₁₆ClN₃O₂S

Molecular Weight: 393.89

Store at low temperature

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

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|---------------|---|
| Description | CRT-0105950 is a potent LIMK inhibitor with high affinity for both LIMK1 and LIMK2. CRT-0105950 inhibits filamentous actin phosphorylation and promotes α -microtubulin acetylation in cells. CRT-0105950 can be used in the study of renal carcinoma. |
| Targets(IC50) | Microtubule Associated, LIM Kinase |

Solubility Information

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|---------------------|--|
| Solubility | DMSO: 100 mg/mL (253.88 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: 4 mg/mL (10.16 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 | 2.5388 mL | 12.6939 mL | 25.3878 mL |
| 5 mM | 0.5078 mL | 2.5388 mL | 5.0776 mL |
| 10 mM | 0.2539 mL | 1.2694 mL | 2.5388 mL |
| 50 mM | 0.0508 mL | 0.2539 mL | 0.5078 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

Mardilovich K, et al. LIM kinase inhibitors disrupt mitotic microtubule organization and impair tumor cell proliferation. *Oncotarget*. 2015 Nov 17;6(36):38469-86.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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