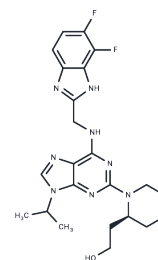


CDK12-IN-3

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2220184-50-7 |
| Formula: | C ₂₃ H ₂₈ F ₂ N ₈ O |
| Molecular Weight: | 470.52 |
| Storage: | Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i> |



Biological Description

| | |
|---------------|---|
| Description | CDK12-IN-3 is a selective and potent CDK12 inhibitor with anti-tumor activity, which can be used to study malignant tumors. |
| Targets(IC50) | CDK |
| In vitro | CDK12-IN-3 is a highly selective inhibitor of CDK12, capable of effectively inhibiting the phosphorylation of Ser2 sites on the CTD repeat domain of RNA Polymerase II, exerting growth inhibitory effects on OV90 cells, and demonstrating acute cytotoxicity against THP1 cells[1]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 200 mg/mL (425.06 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: 5 mg/mL (10.63 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 | 2.1253 mL | 10.6265 mL | 21.2531 mL |
| 5 mM | 0.4251 mL | 2.1253 mL | 4.2506 mL |
| 10 mM | 0.2125 mL | 1.0627 mL | 2.1253 mL |
| 50 mM | 0.0425 mL | 0.2125 mL | 0.4251 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

Johannes JW, et al. Structure-Based Design of Selective Noncovalent CDK12 Inhibitors. ChemMedChem. 2018 Feb 6; 13(3):231-235.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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