

LY3200882

Chemical Properties

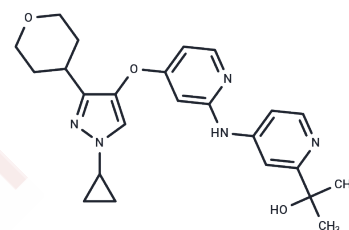
CAS No. : 1898283-02-7

Formula: C₂₄H₂₉N₅O₃

Molecular Weight: 435.52

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 | LY3200882 is a highly selective inhibitor of TGF- β receptor type 1 (TGF β RI). |
| Targets(IC50) | TGF-beta/Smad |
| In vitro | LY3200882 effectively inhibits TGF β -mediated SMAD phosphorylation in tumor and immune cells in vitro, demonstrates anti-metastatic activity in migration assays, and rescues TGF β 1 or T regulatory cell-suppressed naive T cell activity, restoring proliferation in immune suppression assays [1]. |
| In vivo | LY3200882 potently inhibits TGF β mediated SMAD phosphorylation in vivo in subcutaneous tumors in a dose-dependent fashion. LY3200882 has shown anti-metastatic activity in vivo in an experimental metastasis tumor model (intravenous EMT6-LM2 model of triple negative breast cancer) [1]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 4.36 mg/mL (10.01 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: 1 mg/mL (2.3 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 | 2.2961 mL | 11.4805 mL | 22.9611 mL |
| 5 mM | 0.4592 mL | 2.2961 mL | 4.5922 mL |
| 10 mM | 0.2296 mL | 1.1481 mL | 2.2961 mL |
| 50 mM | 0.0459 mL | 0.2296 mL | 0.4592 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

Huaxing Pei, et al. Abstract 955: LY3200882, a novel, highly selective TGF β R1 small molecule inhibitor. AACR; Cancer Res 2017;77(13 Suppl):Abstract nr 955.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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