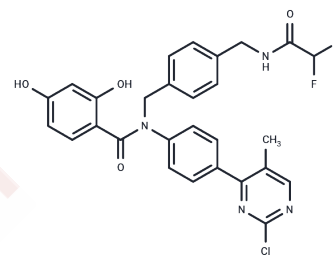


VER-246608

Chemical Properties

CAS No. : 1684386-71-7
 Formula: C₂₈H₂₃ClF₂N₄O₄
 Molecular Weight: 552.96
 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 | VER-246608 is an effective and ATP-competitive inhibitor of pyruvate dehydrogenase kinase (IC ₅₀ s: 35 nM, 40 nM, 84 nM, and 91 nM for PDK-1, PDK-3, PDK-2, and PDK-4, respectively). VER-246608 disrupts Warburg metabolism and induces context-dependent cytostasis in cancer cells. Consistent with a PDK mediated MOA, VER-246608 increased pyruvate dehydrogenase complex (PDC) activity, oxygen consumption and attenuated glycolytic activity. VER-246608 was found to potentiate the activity of doxorubicin. |
| Targets(IC ₅₀) | PDK, Dehydrogenase |
| In vitro | A novel and selective ATP competitive pan-isoform inhibitor of PDK, VER-246608.? Consistent with a PDK mediated MOA, VER-246608 increased pyruvate dehydrogenase complex (PDC) activity, oxygen consumption and attenuated glycolytic activity.? However, these effects were only observed under D-glucose-depleted conditions and required almost complete ablation of PDC E1 α subunit phosphorylation.? VER-246608 was weakly anti-proliferative to cancer cells in standard culture media |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 50 mg/mL (90.42 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: 2 mg/mL (3.62 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 | 1.8084 mL | 9.0422 mL | 18.0845 mL |
| 5 mM | 0.3617 mL | 1.8084 mL | 3.6169 mL |
| 10 mM | 0.1808 mL | 0.9042 mL | 1.8084 mL |
| 50 mM | 0.0362 mL | 0.1808 mL | 0.3617 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.

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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