

Ferroportin-IN-1

Chemical Properties

CAS No. : 2443432-65-1

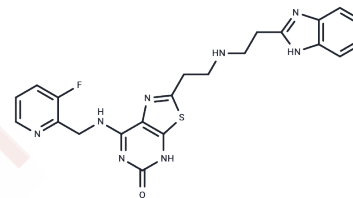
Formula: C22H21FN8OS

Molecular Weight: 464.52

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

| | |
|---------------|---|
| Description | Ferroportin-IN-1 is an inhibitor of the iron transport protein Ferroportin, which regulates cellular iron efflux and metabolism to study diseases caused by iron-modulating deficiencies or disorders of iron metabolism, used in metabolism studies such as thalassemia, sickle cell disease, and hemochromatosis. |
| Targets(IC50) | Ferroportin |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 80 mg/mL (172.22 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 (7.1 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 | 2.1528 mL | 10.7638 mL | 21.5276 mL |
| 5 mM | 0.4306 mL | 2.1528 mL | 4.3055 mL |
| 10 mM | 0.2153 mL | 1.0764 mL | 2.1528 mL |
| 50 mM | 0.0431 mL | 0.2153 mL | 0.4306 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

Li Z, et, al. Ferroportin inhibitors and methods of use. WO2020123850A1.

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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