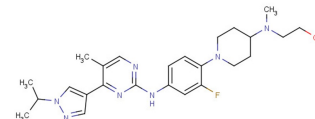


JAK2/FLT3-IN-1

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 2387765-27-5 |
| Formula: | C ₂₅ H ₃₄ FN ₇ O |
| Molecular Weight: | 467.58 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



Biological Description

| | |
|----------------------------|---|
| Description | JAK2/FLT3-IN-1 has anti-cancer activity. JAK2/FLT3-IN-1 is a potent and orally effective dual JAK2/FLT3 (Janus kinase 2/ FMS-like tyrosine kinase 3) inhibitor with IC ₅₀ values of 0.7 nM, 4 nM, 26 nM and 39 nM for JAK2, FLT3, JAK1 and JAK3, respectively. |
| Targets(IC ₅₀) | JAK2: 0.7 nM FLT3: 4 nM JAK1: 26 nM JAK3: 39 nM |
| In vitro | JAK2/FLT3-IN-1 (0.005-0.1 μM; for 2 hours) has a dose-dependent effect on the induction of apoptosis in the MV4-11 cells. JAK2/FLT3-IN-1 (0.008-1 μM; for 2 hours) down-regulates p-FLT3 in a dose-dependent manner from 0.008 to 1 μM. JAK2/FLT3-IN-1 (0.005-0.1 μM; for 2 hours) strongly induces cell cycle arrest with a G1/G0 percentage of 85% at 100 nM in the MV4-11 cells. |
| In vivo | JAK2/FLT3-IN-1 exhibits significant antitumor effects and the tumor growth inhibitory rates (TGI) were respective 58% and 93% in the MV4-11-bearing mice model. |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 2.139 mL | 10.693 mL | 21.387 mL |
| 5 mM | 0.428 mL | 2.139 mL | 4.277 mL |
| 10 mM | 0.214 mL | 1.069 mL | 2.139 mL |
| 50 mM | 0.043 mL | 0.214 mL | 0.428 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Yang T, et al. Discovery of Potent and Orally Effective Dual JAK2/FLT3 Inhibitors for the Treatment of Acute Myelogenous Leukemia and Myeloproliferative Neoplasms. J Med Chem. 2019 Oct 31.

Inhibitors · Natural Compounds · Compound Libraries

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

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