

Eg5-IN-1

Chemical Properties

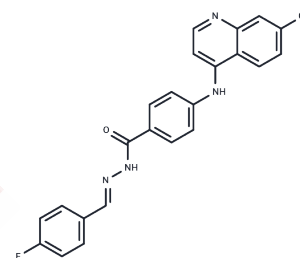
CAS No. :

Formula: C₂₃H₁₆ClFN₄O

Molecular Weight: 418.85

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

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| Description | Eg5-IN-1 is a potent inhibitor of the kinesin family of motor proteins (Eg5) with an IC ₅₀ value of 1.97 μM for Eg5. Eg5-IN-1 can be used in cancer research. |
| Targets(IC ₅₀) | Kinesin |

Solubility Information

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|------------|--|
| Solubility | DMSO: 6.25 mg/mL (14.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.3875 mL | 11.9374 mL | 23.8749 mL |
| 5 mM | 0.4775 mL | 2.3875 mL | 4.775 mL |
| 10 mM | 0.2387 mL | 1.1937 mL | 2.3875 mL |
| 50 mM | 0.0477 mL | 0.2387 mL | 0.4775 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

Ranade SD, et, al. Design, synthesis, molecular dynamics simulation, MM/GBSA studies and kinesin spindle protein inhibitory evaluation of some 4-aminoquinoline hybrids. *Comput Biol Chem.* 2023 Aug;105:107881

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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