

PAK4-IN-5

Chemical Properties

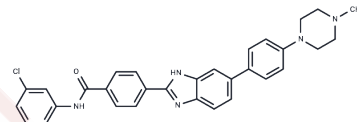
CAS No. :

Formula: C₃₁H₂₈ClN₅O

Molecular Weight: 522.04

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 | PAK4-IN-5 (Compound 12i) is a potent inhibitor of PAK4 (IC ₅₀ : PAK4 at 7.68 nM, PAK1 at 1872.01 nM) that forms stable interactions with the PAK4 enzyme. This compound effectively inhibits the proliferation and migration potential of MDA-MB-231 cells by hindering the phosphorylation of PAK4 and LIMK1. Additionally, PAK4-IN-5 arrests the cell cycle in the G ₀ /G ₁ phase, induces apoptosis, and prompts the production of reactive oxygen species. The LD ₅₀ in mice is greater than 500 mg/kg (oral). |
| Targets(IC ₅₀) | Apoptosis, Reactive Oxygen Species, PAK |
| In vivo | PAK4-IN-5 inhibits cell proliferation with IC ₅₀ values of 1.87 μM (A-549), 1.56 μM (NCI-H1975), 1.21 μM (MDA-MB-231), 2.33 μM (SK-BR-3), 28.68 μM (Beas-2B), and 26.68 μM (MCF-10A). |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.9156 mL | 9.5778 mL | 19.1556 mL |
| 5 mM | 0.3831 mL | 1.9156 mL | 3.8311 mL |
| 10 mM | 0.1916 mL | 0.9578 mL | 1.9156 mL |
| 50 mM | 0.0383 mL | 0.1916 mL | 0.3831 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

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