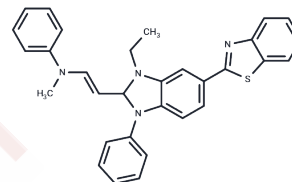


(E)-Akt inhibitor-IV

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 959841-49-7 |
| Formula: | C ₃₁ H ₂₉ N ₄ S |
| Molecular Weight: | 616.56 |
| 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 | (E)-Akt inhibitor-IV ((E)-AKTIV) is an inhibitor of PI3K-Akt. |
| Targets(IC50) | Akt |
| In vitro | (E)-Akt inhibitor-IV shows little effects on the growth of 184B5 non-cancer cells at the average GI20?doses |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 50 mg/mL (81.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Saline: 2.5 mg/mL (4.05 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 | 1.6219 mL | 8.1095 mL | 16.219 mL |
| 5 mM | 0.3244 mL | 1.6219 mL | 3.2438 mL |
| 10 mM | 0.1622 mL | 0.811 mL | 1.6219 mL |
| 50 mM | 0.0324 mL | 0.1622 mL | 0.3244 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

Changkun Hu, et al. A 4-aminoquinoline derivative that markedly sensitizes tumor cell killing by Akt inhibitors with a minimum cytotoxicity to non-cancer cells. Eur J Med Chem. 2010 Feb;45(2):705-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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