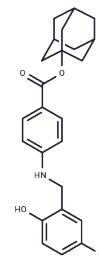


Adaphostin

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 241127-58-2 |
| Formula: | C ₂₄ H ₂₇ N ₃ O ₄ |
| Molecular Weight: | 393.48 |
| 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 | Adaphostin (NSC-680410) is a p210Bcr/Abl tyrosine kinase inhibitor with IC ₅₀ of 14 μM. |
| Targets(IC ₅₀) | Apoptosis,Bcr-Abl |
| In vitro | It also induces apoptosis in T-lymphoblastic human leukemia cell lines (IC ₅₀ values range from 16.8 to 216.3 nM) in vitro. |
| In vivo | Adaphostin can damage both myeloid and lymphoid leukemia cells[2]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | Ethanol: < 40 mg/mL (101.66 mM),Sonication is recommended. DMSO: 55 mg/mL (139.78 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: 2 mg/mL (5.08 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 | 2.5414 mL | 12.7071 mL | 25.4143 mL |
| 5 mM | 0.5083 mL | 2.5414 mL | 5.0829 mL |
| 10 mM | 0.2541 mL | 1.2707 mL | 2.5414 mL |
| 50 mM | 0.0508 mL | 0.2541 mL | 0.5083 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

Svingen PA, et al. Effects of the bcr/abl kinase inhibitors AG957 and NSC 680410 on chronic myelogenous leukemia cells in vitro. Clin Cancer Res. 2000;6(1):237-249.

Chandra J, et al. Involvement of reactive oxygen species in adaphostin-induced cytotoxicity in human leukemia cells. Blood. 2003;102(13):4512-4519.

Orsolic N, et al. Adaphostin has significant and selective activity against chronic and acute myeloid leukemia cells. Cancer Sci. 2006;97(9):952-960.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481