

Product Name: Adaphostin

Catalog No.: 3716

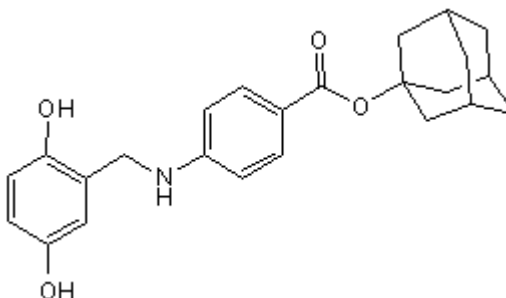
Batch No.: 1

CAS Number: 241127-58-2

IUPAC Name: 4-[[[(2,5-Dihydroxyphenyl)methyl]amino]benzoic acid tricyclo[3.3.1.1^{3,7}]dec-1-yl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₇NO₄·¼H₂O
Batch Molecular Weight: 397.98
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.43	6.96	3.52
Found	72.26	7.09	3.89

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

p210^{bcr/abl} tyrosine kinase inhibitor (IC₅₀ = 14 μM). Induces apoptosis in T-lymphoblastic human leukemia cell lines (IC₅₀ values range from 16.8 to 216.3 nM) *in vitro*. Displays selectivity for chronic myelogenous leukemia (CML) myeloid progenitors *in vitro*.

Physical and Chemical Properties:

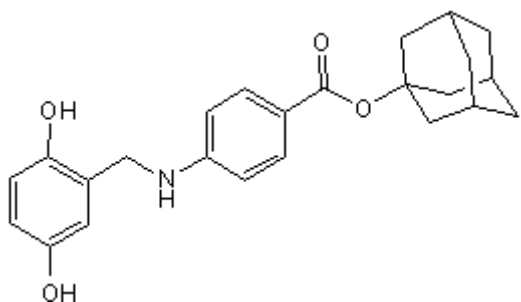
Batch Molecular Formula: C₂₄H₂₇NO₄·¼H₂O

Batch Molecular Weight: 397.98

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Svingen et al (2000) Effects of the bcl/abl kinase inhibitors AG957 and NSC 680410 on chronic myelogenous leukemia cells *in vitro*. Clin.Cancer Res. **6** 237. PMID: 10656455.

Avramis et al (2002) In vitro and in vivo evaluations of the tyrosine kinase inhibitor NSC 680410 against human leukemia and glioblastoma cell lines. Cancer Chemother.Pharmacol. **50** 479. PMID: 12451475.

Mow et al (2002) Effects of bcr/abl kinase inhibitors STI571 and adaphostin (NSC 680410) on chronic myelogenous leukemia cells *in vitro*. Blood **99** 664. PMID: 11781252.

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