

Product Name: Tipifarnib

Catalog No.: 6410

Batch No.: 1

CAS Number: 192185-72-1

IUPAC Name: 6-[(*R*)-Amino(4-chlorophenyl)(1-methyl-1*H*-imidazol-5-yl)methyl]-4-(3-chlorophenyl)-1-methyl-2(1*H*)-quinolinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₂Cl₂N₄O.H₂O

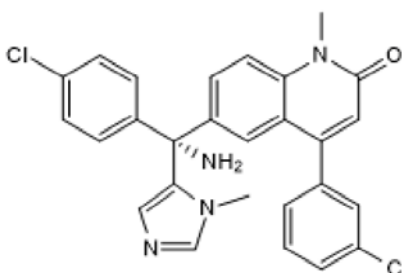
Batch Molecular Weight: 507.42

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +17.1 (Concentration = 0.98, Solvent = Methanol)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.91	4.77	11.04
Found	63.66	4.76	10.79

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Description:

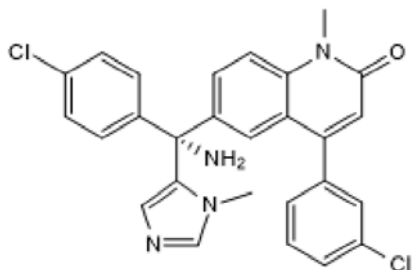
Potent farnesyltransferase inhibitor. Inhibits farnesylation of lamin B and K-RasB peptide substrates (IC₅₀ values are 0.86 and 7.9 nM, respectively). Inhibits tumor growth in vitro and in vivo. Cell penetrant and orally bioavailable.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₇H₂₂Cl₂N₄O.H₂O
 Batch Molecular Weight: 507.42
 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
 ethanol to 20 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:

End *et al* (2001) Characterization of the antitumor effects of the selective farnesyl protein transferase inhibitor R115777 *in vivo* and *in vitro*. *Cancer Res.* **61** 131. PMID: 11196150.

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