

Product Name: Lonafarnib

Catalog No.: 6265

Batch No.: 2

CAS Number: 193275-84-2

IUPAC Name: 4-[2-[4-[(1*R*)-3,10-Dibromo-8-chloro-6,11-dihydro-5*H*-benzo[5,6]cyclohepta[1,2-*b*]pyridin-11-yl]-1-piperidinyl]-2-oxoethyl]-1-piperidinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₁Br₂ClN₄O₂

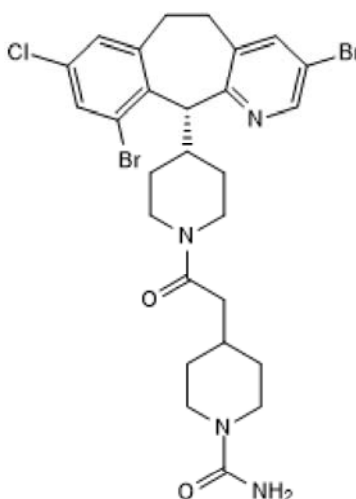
Batch Molecular Weight: 638.82

Physical Appearance: Off-white solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.76	4.89	8.77
Found	50.7	4.72	8.56

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CAS Number: 193275-84-2

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Description:

Potent farnesyl transferase inhibitor (IC₅₀ = 1.9 nM). Inhibits farnesylation of RAS. Also inhibits Pgp transport (IC₅₀ < 3 μM) and increases potency and anticancer activity when used in conjunction with cytotoxic Pgp substrates. Inhibits neovascularization by affecting cell motility. Orally bioavailable.

Physical and Chemical Properties:

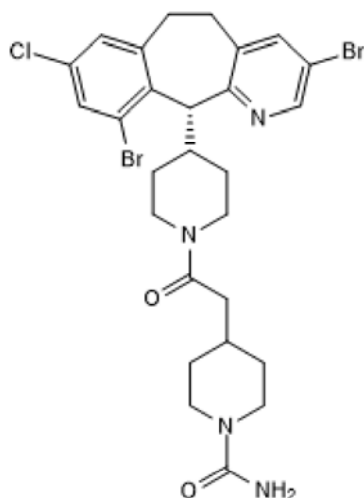
Batch Molecular Formula: C₂₇H₃₁Br₂ClN₄O₂

Batch Molecular Weight: 638.82

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 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:

Lo Cicero et al (2016) A high throughput phenotypic screening reveals compounds that counteract premature osteogenic differentiation of HGPS iPS-derived mesenchymal stem cells. *Sci.Rep.* **6** 34798. PMID: 27739443.

Bowman et al (2015) Phosphorylation of FADD by the kinase CK1α promotes KRASG12D-induced lung cancer. *Sci.Signal.* **8**. PMID: 25628462.

Shen et al (2015) Farnesyltransferase and geranylgeranyltransferase I: structures, mechanism, inhibitors and molecular modeling. *Drug Discov.Today.* **20** 267. PMID: 25450772 .

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