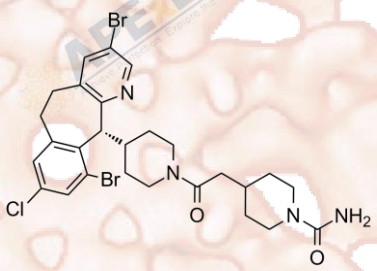
Product Data Sheet

Lonafarnib



Cat. No.:	A4379
CAS No.:	193275-84-2
Formula:	C27H31Br2ClN4O2
M.Wt:	638.82
Synonyms:	Sch 66336, Sch66336, Sch-66336
Target:	Metabolism
Pathway:	Transferase
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾31.95 mg/mL in DMSO; insoluble in H2O; ⩾96.4 mg/mL in EtOH with ultrasonic

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	1.5654 mL	7.8269 mL	15.6539 mL
5 mM	0.3131 mL	1.5654 mL	3.1308 mL
10 mM	0.1565 mL	0.7827 mL	1.5654 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Ftase inhibitor,potent and selective
IC_{50} & Target	1.9 nM (H-Ras) (FT), 2.8 nM (N-Ras) (FT), 5.2 nM (K-Ras) (FT), 10-100 nM (Rheb) (FT)

In Vitro

Cell Viability Assay

Cell Line:	UMSCC10B, UMSCC14B, UMSCC17B, UMSCC22B, UMSCC35 and UMSCC38 cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.

	Reacting conditions:	0.1 ~ 8 μM; 24 hrs
	Applications:	In human head and neck squamous carcinoma cells (HNSCCs), SCH66336 (0.1 ~ 8 μM) suppressed cell growth and induced apoptosis of in a dose- and time- dependent manner.
In Vivo	**Animal experiment**	
	Animal models:	NOD/SCID mice bearing XEN08 tumors
	Dosage form:	50 mg/kg; p.o.; b.i.d., for 20 days
	Applications:	In NOD/SCID mice bearing XEN08 tumors, SCH66336 (50 mg/kg, p.o., b.i.d.) significantly inhibited tumor growth, with a mean growth inhibition of 63.8 ± 5.0%.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Chun KH, Lee HY, Hassan K, Khuri F, Hong WK, Lotan R. Implication of protein kinase B/Akt and Bcl-2/Bcl-XL suppression by the farnesyl transferase inhibitor SCH66336 in apoptosis induction in squamous carcinoma cells. Cancer Res. 2003 Aug 15;63(16):4796-800.

[2]. Feldkamp MM, Lau N, Roncari L, Guha A. Isotype-specific Ras.GTP-levels predict the efficacy of farnesyl transferase inhibitors against human astrocytomas regardless of Ras mutational status. Cancer Res. 2001 Jun 1;61(11):4425-31.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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