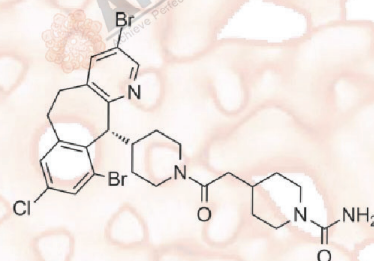


# Product Data Sheet

# Lonafarnib

<b>Cat. No.:</b>	A4379
<b>CAS No.:</b>	193275-84-2
<b>Formula:</b>	C27H31Br2CIN4O2
<b>M.Wt:</b>	638.82
<b>Synonyms:</b>	Sch 66336, Sch66336, Sch-66336
<b>Target:</b>	Metabolism
<b>Pathway:</b>	Transferase
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

≥31.95 mg/mL in DMSO; insoluble in H<sub>2</sub>O; ≥96.4 mg/mL in EtOH with ultrasonic

Preparing Stock Solutions	Mass			
	Solvent	1mg	5mg	10mg
	Concentration			
	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 <sub>50</sub> & 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	<b>Cell Viability Assay</b>	
	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 $\mu$ M; 24 hrs
	Applications:	In human head and neck squamous carcinoma cells (HNSCCs), SCH66336 (0.1 ~ 8 $\mu$ M) suppressed cell growth and induced apoptosis of in a dose- and time- dependent manner.
In Vivo	<b>Animal experiment</b>	
	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 $63.8 \pm 5.0\%$ .
	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](http://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 APEx BIO 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.



## APExBIO Technology

[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)

