

Product Datasheet

Lonafarnib

Catalog No. **BP-02337** · CAS **193275-84-2** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

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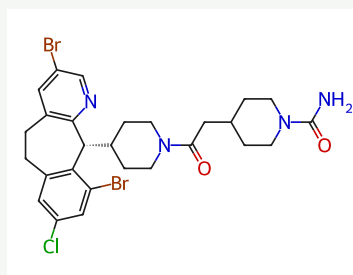
Target

Farnesyl Transferase; Tau Protein; RSV; Akt; Ras; Bcl-2 Family; STAT; nAChR; Apoptosis; Autophagy

Molecular formula **C₂₇H₃₁Br₂ClN₄O₂**

Molecular weight **638.8220**

STRUCTURE



DESCRIPTION

Lonafarnib (SCH66336) is an orally bioavailable FPTase inhibitor for H-ras, K-ras-4B and N-ras with IC₅₀ of 1.9 nM, 5.2 nM and 2.8 nM in cell-free assays, respectively.

BIOLOGICAL ACTIVITY

Lonafarnib (SCH 66336) is a selectively farnesyl protein transferase (FPT) inhibitor, inhibiting H-ras, K-ras-4B and N-ras with IC₅₀ of 1.9 nM, 5.2 nM and 2.8 nM, respectively. Lonafarnib (8 μM) suppresses PKB/Akt activity as well as the phosphorylation of the Akt substrates glycogen synthase kinase (GSK)-3β, forkhead transcription factor, and BAD in SqCC/Y1 cells. Lonafarnib induces a CCAAT/enhancer-binding protein homologous protein (CHOP)-dependent transactivation of the DR5 promoter, thus induces CHOP-dependent DR5 up-regulation.

SOLUBILITY

Soluble in DMSO

REFERENCES

- 1] Liu M, et al. Antitumor activity of SCH 66336, an orally bioavailable tricyclic inhibitor of farnesyl protein transferase, in human tumor xenograft models and wap-ras transgenic mice. *Cancer Res*, 1998, 58(21), 4947-4956.
- [2] Chun KH, et al. 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, 63(16), 4796-4800.
- [3] Feldkamp MM, et al. Isotype-specific Ras.GTP-levels predict the efficacy of farnesyl transferase inhibitors against human astrocytomas regardless of Ras mutational status. *Cancer Res*, 2001, 61(11), 4425-4431.

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