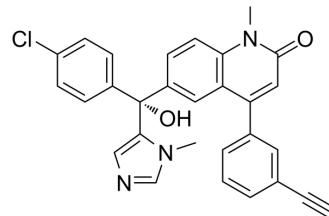


CP-609754

Cat. No.:	HY-16373		
CAS No.:	1190094-64-4		
Molecular Formula:	C ₂₉ H ₂₂ ClN ₃ O ₂		
Molecular Weight:	479.96		
Target:	Farnesyl Transferase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (208.35 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.0835 mL	10.4175 mL	20.8351 mL
	5 mM	0.4167 mL	2.0835 mL	4.1670 mL
	10 mM	0.2084 mL	1.0418 mL	2.0835 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	CP-609754 (LNK-754) is a potent and reversible farnesyltransferase inhibitor with potential anticancer activity. The IC ₅₀ for inhibiting farnesylation of recombinant human H-Ras is 0.57 ng/mL and recombinant K-Ras is 46 ng/mL ^[1] .
In Vitro	<p>CP-609754 (CP-609,754) is a reversible inhibitor of farnesyltransferase with a slow on/off rate. CP-609,754 inhibits farnesylation (IC₅₀=1.72 ng/mL) of mutant H-Ras in 3T3 H-ras (61L)-transfected cell lines with SDS-PAGE analysis of [³⁵S]methionine-labeled material^[1].</p> <p>CP-609754 is competitive for the prenyl acceptor (H-Ras protein) and noncompetitive for the prenyl donor farnesyl PPI. CP-609754 interacts with the farnesyltransferase-farnesyl PPI complex and competes for the binding of the Ras protein. CP-609754 selectively inhibits farnesylation of both H- and K-Ras proteins in 3T3 transfectants^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

In Vivo

CP-609754 (CP-609,754) has antitumor activity against 3T3 H-ras (61L) tumors in vivo^[1].

With twice daily oral dosing of CP-609754, tumor regression is achieved with a dose of 100 mg/kg; the ED₅₀ for tumor growth inhibition is 28 mg/kg^[1].

With continuous i.p. infusion of CP-609754, tumor growth is inhibited by >50%, and tumor farnesyltransferase activity inhibited by >30% in mice in which the plasma concentration of CP-609754 is maintained above 118 ng/mL^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Stacy L Moulder, et al. A phase I open label study of the farnesyltransferase inhibitor CP-609,754 in patients with advanced malignant tumors. Clin Cancer Res. 2004 Nov 1;10(21):7127-35.

Caution: Product has not been fully validated for medical applications. For research use only.

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