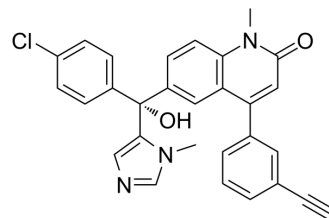


## CP-609754

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



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (208.35 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.0835 mL	10.4175 mL	20.8351 mL
	<b>5 mM</b>	0.4167 mL	2.0835 mL	4.1670 mL
	<b>10 mM</b>	0.2084 mL	1.0418 mL	2.0835 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. 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  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.21 mM); Clear solution			

## BIOLOGICAL ACTIVITY

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

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**In Vivo**

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

With twice daily oral dosing of CP-609754, tumor regression is achieved with a dose of 100 mg/kg; the ED<sub>50</sub> for tumor growth inhibition is 28 mg/kg<sup>[1]</sup>.

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<sup>[1]</sup>.

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

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**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.

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

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