



上海源叶生物科技有限公司
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产品名称: CH5424802 (Hydrochloride)
产品别名: 艾乐替尼盐酸盐; Alectinib Hydrochloride; RO5424802 Hydrochloride; AF-802 Hydrochloride

生物活性:					
Description	Alectinib Hydrochloride (CH5424802 Hydrochloride; RO5424802 Hydrochloride; AF-802 Hydrochloride) is a potent, selective, and orally available ALK inhibitor with an IC ₅₀ of 1.9 nM and a K _d value of 2.4 nM (in an ATP-competitive manner), and also inhibits ALK F1174L and ALK R1275Q with IC ₅₀ s of 1 nM and 3.5 nM, respectively ^[1] . Alectinib demonstrates effective central nervous system (CNS) penetration ^[2] .				
IC₅₀ & Target	IC ₅₀ : 1.9 nM (ALK), 1 nM (ALK ^{F1174L}), 3.5 nM (ALK ^{R1275Q}) ^[1] Kd: 2.4 nM (ALK) ^[1]				
In Vitro	Alectinib (0-1000 nM; 2 hours; NCI-H2228 cells) treatment could prevent autophosphorylation of ALK in NCI-H2228 cells expressing EML4-ALK, and it also resulted in substantial suppression of phosphorylation of STAT3 and AKT ^[1] .				
	Alectinib (0-1000 nM; 5 days; HCC827, A549, or NCIH522 cells) treatment reduces cell activity in a dose-dependent manner ^[1] .				
	Western Blot Analysis[1]				
	Cell Line:	NCI-H2228 cells			
	Concentration:	0 nM, 10 nM, 100 nM, 1000 nM			
	Incubation Time:	2 hours			
	Result:	Inhibition of ALK phosphorylation and signal transduction.			
	Cell Viability Assay[1]				
	Cell Line:	HCC827, A549, or NCIH522 cells			
	Concentration:	0-1000 nM			
Incubation Time:	5 days				
Result:	Reduced cell activity in a dose-dependent manner.				
In Vivo	Alectinib (0.2-20 mg/kg; oral administration; once daily; for 11 days; SCID or nude mice bearing NCI-H2228 cells) treatment can result in dose-dependent tumor growth inhibition (EC ₅₀ of 0.46 mg/kg) and tumor regression. At any dose level, no differences in body weight or gross signs of toxicity are observed ^[1] .				
	Animal Model:	SCID or nude mice bearing NCI-H2228 cells ^[1]			
	Dosage:	0.2 mg/kg, 0.6 mg/kg, 2 mg/kg, 6 mg/kg, 20 mg/kg			
	Administration:	Oral administration; once daily; for 11 days			
	Result:	Resulted in dose-dependent tumor growth inhibition (EC ₅₀ of 0.46 mg/kg) and tumor regression.			
Solvent&Solubility	In Vitro:				
	DMSO : 6 mg/mL (11.56 mM; Need ultrasonic and warming)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	1.9265 mL	9.6324 mL	19.2649 mL
	5 mM	0.3853 mL	1.9265 mL	3.8530 mL	



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	10 mM	0.1926 mL	0.9632 mL	1.9265 mL
	<p>*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液, 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。</p> <p>储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。</p>			
References	<p>[1]. Sakamoto H, et al. CH5424802, a selective ALK inhibitor capable of blocking the resistant gatekeeper mutant. <i>Cancer Cell</i>. 2011, 19(5), 679-690.</p> <p>[2]. Gadgeel S, et al. Alectinib versus crizotinib in treatment-naive anaplastic lymphoma kinase-positive (ALK+) non-small-cell lung cancer: CNS efficacy results from the ALEX study. <i>Ann Oncol</i>. 2018 Nov 1;29(11):2214-2222.</p>			



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