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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 <sub>50</sub> of 1.9 nM and a K <sub>d</sub> value of 2.4 nM (in an ATP-competitive manner), and also inhibits ALK F1174L and ALK R1275Q with IC <sub>50</sub> s of 1 nM and 3.5 nM, respectively <sup>[1]</sup> . Alectinib demonstrates effective central nervous system (CNS) penetration <sup>[2]</sup> .				
IC <sub>50</sub> & Target		IC50: 1.9 nM (ALK), 1 nM (ALK <sup>F1174L</sup> ), 3.5 nM (ALK <sup>R1275Q</sup> ) <sup>[1]</sup> Kd: 2.4 nM (ALK) <sup>[1]</sup>				
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 <sup>[1]</sup> .				
		Alectinib (0-1000 nM; 5 days; HCC827, A549, or NCIH522 cells) treatment reduces cell activity in a dose-dependent manner <sup>[1]</sup> .				
		Western Blot Analysis <sup>[1]</sup>				
		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 <sup>[1]</sup>				
		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 <sub>50</sub> of 0.46 mg/kg) and tumor regression. At any dose level, no differences in body weight or gross signs of toxicity are observed <sup>[1]</sup> .				
		Animal Model:	SCID or nude mice bearing NCI-H2228 cells <sup>[1]</sup>			
		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 <sub>50</sub> 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	<div>Solvent / Mass / Concentration</div>	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. Cancer Cell. 2011, 19(5), 679-690.</p> <p>[2]. Gadgeel S, et al. Alectinib versus crizotinib in treatment-naïve anaplastic lymphoma kinase-positive (ALK+) non-small-cell lung cancer: CNS efficacy results from the ALEX study. Ann Oncol. 2018 Nov 1;29(11):2214-2222.</p>			

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