



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: 恩替卡韦

产品别名: Entecavir; BMS200475; SQ34676

生物活性:

Description	Entecavir (SQ 34676; BMS 200475) is a potent and selective inhibitor of HBV, with an EC ₅₀ of 3.75 nM in HepG2 cell.				
IC ₅₀ & Target	EC50: 3.75 nM (anti-HBV, HepG2 cell) ^[2]				
In Vitro	BMS-200475 has a EC ₅₀ of 3.75 nM against HBV. It is incorporated into the protein primer of HBV and subsequently inhibits the priming step of the reverse transcriptase. The antiviral activity of BMS-200475 is significantly less against the other RNA and DNA viruses ^[1] . Entecavir is more readily phosphorylated to its active metabolites than other deoxyguanosine analogs (penciclovir, ganciclovir, lobucavir, and aciclovir) or lamivudine. The intracellular half-life of entecavir is 15 h ^[2] .				
In Vivo	Daily oral treatment with BMS-200475 at doses ranging from 0.02 to 0.5 mg/kg of body weight for 1 to 3 months effectively reduces the level of woodchuck hepatitis virus (WHV) viremia in chronically infected woodchucks ^[3] .				
Solvent&Solubility	In Vitro: DMSO : ≥ 44 mg/mL (158.68 mM) * "≥" means soluble, but saturation unknown.				
	<div>Preparing Stock Solutions</div>	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg	10 mg
		1 mM	3.6065 mL	18.0323 mL	36.0646 mL
		5 mM	0.7213 mL	3.6065 mL	7.2129 mL
		10 mM	0.3606 mL	1.8032 mL	3.6065 mL
	*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。 储备液的保存方式和期限：-80℃，6 months；-20℃，1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。				
References	<p>[1]. Innaimo SF, et al. Identification of?BMS-200475?as a potent and selective inhibitor of hepatitis B virus. Antimicrob Agents Chemother. 1997 Jul;41(7):1444-9.</p> <p>[2]. Rivkin A, et al. A review of entecavir in the treatment of chronic hepatitis B infection. Curr Med Res Opin.?2005 Nov;21(11):1845-57.</p> <p>[3]. Genovesi EV, et al. Efficacy of the carbocyclic 2'-deoxyguanosine nucleoside?BMS-200475?in the woodchuck model of hepatitis B virus infection. Antimicrob Agents Chemother.?1998 Dec;42(12):3209-18.</p>				
实验参考:					
Cell Assay	BMS 200475 is prepared in phosphate-buffered saline (PBS) and diluted with appropriate medium containing 2% fetal bovine serum. HepG2 2.2.15 cells are plated at a density of 5×10 ⁵ cells per well on 12-well Biocoat collagen-coated plates and are maintained in a confluent state for 2 to 3 days before being overlaid with 1 mL of medium spiked with BMS 200475. Quantification of HBV was performed on day 10 ^[1] .				
	[1]. Innaimo SF, et al. Identification of?BMS-200475?as a potent and selective inhibitor of hepatitis B virus.				



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