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产品名称: 二溴化-1,1'-二庚基-4,4'-联吡啶鎓[用于电致变色材料]

产品别名: DHBP dibromide; Diheptylviologen dibromide

生物活性:						
Description		DHBP dibromide is an inhibitor for calcium release and a muscle relaxant.				
In Vitro		DHBP inhibits the calcium release induced by 2 mM caffeine and 2 µg/mL polylysine with an IC ₅₀ value of 5 µg/mL and 4 µg/mL, respectively. DHBP inhibits [³ H]-ryanodine binding in a dose-dependent manner with an IC ₅₀ of 2.5 µg/mL and 90-100% inhibition at 20-30 µg/mL. Calcium uptake by SR is inhibited in the presence of caffeine and this inhibition is antagonized by concomitant addition of DHBP. Muscle twitches elicited by direct electrical muscle stimulation and contractions induced by either 10 mM caffeine or 1 fLM ryanodine are blocked by pretreatment with DHBP. DHBP blocks the calcium release from SR by direct interaction with the calcium release channel, also known as the ryanodine receptor[1].				
Solvent&Solubility		<i>In Vitro:</i> H₂O : 100 mg/mL (194.41 mM; Need ultrasonic) DMSO : ≥ 30 mg/mL (58.32 mM) * "≥" means soluble, but saturation unknown.				
		Preparing Stock Solutions	<div><div>SolventMassConcentration</div><div></div></div>	1 mg	5 mg	10 mg
			1 mM	1.9441 mL	9.7204 mL	19.4409 mL
			5 mM	0.3888 mL	1.9441 mL	3.8882 mL
			10 mM	0.1944 mL	0.9720 mL	1.9441 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°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。						
References		[1]. Kang JJ, et al. Effects of bipyridylum compounds on calcium release from triadic vesicles isolated from rabbit skeletal muscle. Br J Pharmacol. 1994 Aug;112(4):1216-22.				