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产品名称: **KKL-10**  
产品别名: **KKL-10**

生物活性:				
Description	KKL-10 is a small-molecule ribosome rescue inhibitor with broad-spectrum antimicrobial activity against bacteria.			
In Vitro	The ribosome rescue inhibitor KKL-10 exhibits exceptional antimicrobial activity against both attenuated and fully virulent strains of <i>F. tularensis</i> . The minimum inhibitory concentration (MIC) against <i>F. tularensis</i> strain LVS and Schu S4 are 0.12 and 0.48 $\mu$ g/mL, respectively. KKL-10 arrests intracellular growth of <i>F. tularensis</i> during all stages of infection. KKL-10 does not affect macrophage viability or function. KKL-10 produces cytotoxic effects of less than 5% at concentrations up to 17.5 $\mu$ g/mL. The combination of IFN- $\gamma$ stimulation and KKL-10 activity results in a reduction of the bacterial load by >99.9%. KKL-10 is also able to inhibit growth of <i>F. tularensis</i> inside eukaryotic cells and show no toxicity to HepG2 cells[1].			
Solvent&Solubility	<b>In Vitro:</b> DMSO : 6.8 mg/mL (18.67 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Concentration	Mass 1 mg	5 mg
		1 mM	2.7456 mL	13.7280 mL
		5 mM	0.5491 mL	2.7456 mL
		10 mM	0.2746 mL	1.3728 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]. Goralski TD, et al. Inhibitors of Ribosome Rescue Arrest Growth of Francisella tularensis at All Stages of Intracellular Replication. Antimicrob Agents Chemother. 2016 May 23;60(6):3276-82.			