



上海源叶生物科技有限公司
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产品名称: **KKL-35**
CAS 号: **865285-29-6**
产品货号: **S88195**

生物活性:

Description	KKL-35 是反式标记反应抑制剂, IC50 值为 0.9 μ M。				
IC50 & Target	IC50: 0.9 μ M (trans-translation tagging reaction)[1]				
Cellular Effect	Cell Line	Type	Value	Description	
	HEK293	IC50	8.9 μM	Inhibition of human AC1 expressed in HEK293 cells assessed as decrease in A23187-stimulated cAMP accumulation preincubated for 30 mins followed by A23187 stimulation and measured after 1 hr by fluorescence assay	
In Vitro	KKL-35 exhibits broad-spectrum antibiotic activity. KKL-35 prevents growth of B. anthracis and M. smegmatis with minimum inhibitory concentration (MIC) values of less than 6 μ M. KKL-35 inhibits trans-translation at some step before proteolysis of tagged proteins. KKL-35 inhibits tagging of DHFR-ns. A large amount of untagged DHFR is produced in reactions with the highest concentrations of KKL-35, indicating that KKL-35 does not inhibit translation. KKL-35 prevents growth of WT S. flexneri with a MIC of 6 μ M, and addition of KKL-35 to a growing culture of S. flexneri stops growth. In an S. flexneri strain expressing ArfA and deleted for ssrA, addition of KKL-35 has little effect on viability or growth rate. KKL-35 inhibits the growth of E. coli tolC, which is deficient in small molecule efflux, with an MIC of 0.3 μ M[1]。				
In Vivo	Evidence suggest that the in vivo effects of KKL-35 are caused by inhibition of the release of nonstop translation complexes by trans-translation. KKL-35 inhibits trans-translation and prevents growth of S. flexneri strains that require trans-translation. The correlation between inhibition of trans-translation and growth is supported by genetic and pharmacological experiments showing that alternative mechanisms to release nonstop translation complexes relieve the growth suppression of KKL-35[1]。				
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 6.25 mg/mL (19.67 mM; 超声助溶; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	3.1476 mL	15.7381 mL	31.4762 mL
		5 mM	0.6295 mL	3.1476 mL	6.2952 mL
		10 mM	0.3148 mL	1.5738 mL	3.1476 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。					
参考文献	[1]. Ramadoss NS, et al. Small molecule inhibitors of trans-translation have broad-spectrum antibiotic activity. Proc Natl Acad Sci U S A. 2013 Jun 18;110(25):10282-7.				
完整储备液配制表:					
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					



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1 个月内使用。

可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	3.1476 mL	15.7381 mL	31.4762 mL	78.6906 mL
	5 mM	0.6295 mL	3.1476 mL	6.2952 mL	15.7381 mL
	10 mM	0.3148 mL	1.5738 mL	3.1476 mL	7.8691 mL
	15 mM	0.2098 mL	1.0492 mL	2.0984 mL	5.2460 mL



源叶