



上海源叶生物科技有限公司
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产品名称: **BML-259**
CAS 号: **267654-00-2**
产品货号: **S89480**

生物活性:

Description	BML-259 是一种有效的细胞周期蛋白依赖性激酶 5 (Cdk5)抑制剂, 对 Cdk5 和 Cdk2 的 IC50 分别为 64 和 98 nM。				
Cellular Effect	Cell Line	Type	Value	Description	
	Sf9	IC50	0.195 μM	Inhibition of His-tagged CDK2/cyclin E (unknown origin) expressed in Baculovirus infected Sf9 cells using histone H1 as substrate in presence of [gamma-33P]-ATP by radiometric filter binding assay	
	Sf9	IC50	0.458 μM	Inhibition of GST-tagged CDK5/p25 (unknown origin) expressed in Baculovirus infected Sf9 cells using histone H1 as substrate as substrate in presence of [gamma-33P]-ATP by radiometric filter binding assay	
	Sf9	IC50	0.637 μM	Inhibition of GST-tagged CDK7/cyclinH/MAT1 (unknown origin) expressed in Baculovirus infected Sf9 cells using YSPTSPS-2 KK peptide as substrate as substrate in presence of [gamma-33P]-ATP by radiometric filter binding assay	
	Sf9	IC50	1.7 μM	Inhibition of His-tagged CDK1/cyclin B1 (unknown origin) expressed in Baculovirus infected Sf9 cells using histone H1 as substrate in presence of [gamma-33P]-ATP by radiometric filter binding assay	
	Sf9	IC50	20.4 μM	Inhibition of GST-tagged CDK4/cyclin D1 (unknown origin) expressed in Baculovirus infected Sf9 cells using RPPTLSPIPHIPR peptide as substrate in presence of [gamma-33P]-ATP by radiometric filter binding assay	
	Sf9	IC50	3.4 μM	Inhibition of GST-tagged CDK9/CyclinT1 (unknown origin) expressed in Baculovirus infected Sf9 cells using YSPTSPS-2 KK peptide as substrate as substrate in presence of [gamma-33P]-ATP by radiometric filter binding assay Inhibition of GST-tagged CDK9/CyclinT1 (unknown origin) expressed in Baculovirus infected Sf9 cells using YSPTSPS-2 KK peptide as substrate as substrate in presence of [gamma-33P]-ATP by radiometric filter binding assay	
In Vitro	BML-259 (10 μM) 保护大量细胞免受阿尔茨海默病淀粉样蛋白 (NAC) 的非 Aβ 成分诱发的细胞死亡[2]				
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 125 mg/mL (480.12 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	Solvent Concentration Mass	1 mg	5 mg	10 mg
1 mM		3.8410 mL	19.2049 mL	38.4098 mL	



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	Stock Solutions	5 mM	0.7682 mL	3.8410 mL	7.6820 mL
		10 mM	0.3841 mL	1.9205 mL	3.8410 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]. Kaźmierczak A, et al. A novel mechanism of non-A β component of Alzheimer's disease amyloid (NAC) neurotoxicity. Interplay between p53 protein and cyclin-dependent kinase 5 (Cdk5). Neurochem Int. 2011;58(2):206-214.				

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 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	3.8410 mL	19.2049 mL	38.4098 mL	96.0246 mL
	5 mM	0.7682 mL	3.8410 mL	7.6820 mL	19.2049 mL
	10 mM	0.3841 mL	1.9205 mL	3.8410 mL	9.6025 mL
	15 mM	0.2561 mL	1.2803 mL	2.5607 mL	6.4016 mL
	20 mM	0.1920 mL	0.9602 mL	1.9205 mL	4.8012 mL
	25 mM	0.1536 mL	0.7682 mL	1.5364 mL	3.8410 mL
	30 mM	0.1280 mL	0.6402 mL	1.2803 mL	3.2008 mL
	40 mM	0.0960 mL	0.4801 mL	0.9602 mL	2.4006 mL
	50 mM	0.0768 mL	0.3841 mL	0.7682 mL	1.9205 mL
	60 mM	0.0640 mL	0.3201 mL	0.6402 mL	1.6004 mL
	80 mM	0.0480 mL	0.2401 mL	0.4801 mL	1.2003 mL
	100 mM	0.0384 mL	0.1920 mL	0.3841 mL	0.9602 mL