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产品名称: **Madrasin**
 产品别名: **DDD00107587**

生物活性:																		
Description	Madrasin (DDD00107587) is a splicing inhibitor that prevents formation of both splicing intermediates and products in vitro and interferes with one or more early steps in the pathway of spliceosome assembly. Madrasin also can inhibit pre-mRNA splicing in vitro and modify splicing of endogenous pre-mRNA in cells[1].																	
IC₅₀ & Target	pre-mRNA splicing[1]																	
In Vitro	Madrasin (10-30 μ M; 4-24 hours; HeLa cells) treatment inhibits the splicing of each of the R1OK3, BRD2, and Hsp40, MCL1, CCNA2, AURKA and p27 pre-mRNAs in both HeLa and HEK293 cells[1]. Madrasin (10-30 μ M; 4-24 hours; HeLa and HEK293 cells) treatment shows a dose- and time-dependent inhibitory effect on cell cycle progression[1].																	
	RT-PCR[1]																	
	Cell Line: HeLa cells																	
	Concentration: 10 μ M, 20 μ M, or 30 μ M																	
	Incubation Time: 4 hours, 8 hours, or 24 hours																	
	Result: Increased in inhibition of pre-mRNA splicing.																	
	Cell Cycle Analysis[1]																	
	Cell Line: HeLa and HEK293 cells																	
	Concentration: 10 μ M, 20 μ M, or 30 μ M																	
	Incubation Time: 4 hours, 8 hours, or 24 hours																	
Result: In the presence of 10 μ M 8 hours after treatment, the proportion of cells in G2, M, and S phases increased, with a concomitant decrease in the number of G1 phase cells. This effect increased over time, with >40% of cells in G2 and M phase and >50% in S phase 24 hours.																		
Solvent&Solubility	In Vitro: DMSO : 2 mg/mL (6.42 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (insoluble)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Preparing Stock Solutions</th> <th>Solvent \ Mass Concentration</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>3.2119 mL</td> <td>16.0596 mL</td> <td>32.1192 mL</td> </tr> <tr> <td>5 mM</td> <td>0.6424 mL</td> <td>3.2119 mL</td> <td>6.4238 mL</td> </tr> <tr> <td>10 mM</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table>	Preparing Stock Solutions	Solvent \ Mass Concentration	1 mg	5 mg	10 mg	1 mM	3.2119 mL	16.0596 mL	32.1192 mL	5 mM	0.6424 mL	3.2119 mL	6.4238 mL	10 mM	---	---	---
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*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]. Andrea Pawellek et al. Identification of Small Molecule Inhibitors of Pre-mRNA Splicing. J Biol Chem, 2014 Dec 12, 289(50): 34683-34698.																	