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产品名称:  $\Gamma$ -D-谷氨酰基甘氨酸  
产品别名: **gamma-DGG;  $\gamma$ -D-谷氨酰基甘氨酸;  $\gamma$ DGG;**  
 **$\gamma$ -D-Glutamylglycine**

生物活性:				
Description	gamma-DGG is a competitive AMPA receptor blocker.			
IC <sub>50</sub> & Target	AMPA receptor[1]			
In Vitro	gamma-DGG ( $\gamma$ -DGG), a competitive AMPA receptor blocker that blocks less at higher glutamate concentration. At 200-400 $\mu$ M, gamma-DGG in the bath reduces the miniature EPSC (mEPSC) amplitude by 26 $\pm$ 2% (n=5 synapses), and shifts both the mEPSC amplitude distribution and the cumulative probability curve to the left[1]. gamma-DGG ( $\gamma$ -DGG) is the most effective antagonist of the excitatory post-synaptic potentials (e.p.s.p.s). Its action is reversible and not associated with any change in the passive membrane properties of the granule cells or in the apparent reversal potential of the e.p.s.p. Quantal analysis shows that the reduction in the e.p.s.p. paralleled the decrease in quantal size rather than quantal content, confirming a post-synaptic site of the action of gamma-DGG[2].			
Solvent&Solubility	<b>In Vitro:</b> <b>H<sub>2</sub>O : <math>\geq</math> 150 mg/mL (734.65 mM)</b> <small>* "<math>\geq</math>" means soluble, but saturation unknown.</small>			
		<div>SolventMassConcentration</div>	1 mg	5 mg
	Preparing	1 mM	4.8976 mL	24.4882 mL
	Stock Solutions	5 mM	0.9795 mL	4.8976 mL
		10 mM	0.4898 mL	2.4488 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℃，6 months；-20℃，1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。				
References	[1]. Wu XS, et al. The origin of quantal size variation: vesicular glutamate concentration plays a significant role. J Neurosci. 2007 Mar 14;27(11):3046-56. [2]. Crunelli V, et al. Blockade of amino acid-induced depolarizations and inhibition of excitatory post-synaptic potentials in rat dentate gyrus. J Physiol. 1983 Aug;341:627-40.			