



上海源叶生物科技有限公司
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产品名称: **CROSSTIDE**
产品别名: **Crosstide**

生物活性:					
Description	Crosstide is a peptide analog of glycogen synthase kinase α/β fusion protein sequence which is a substrate for Akt.				
IC ₅₀ & Target	Akt				
In Vitro	16HBE14o- cells exposed to RV39 demonstrate a crosstide kinase activity in vitro. Serine phosphorylation of crosstide is confirmed by immunoblotting, and phosphorylation is blocked by PP2 but not by PP3 ^[1] . The wildtype GST-AKT2 shows significant phosphoryl transferase activity towards crosstide, reaching an initial velocity of 16 pmol phosphate/min/ μ g enzyme. The mutant GST-AKT2T/E,S/D displayed an initial velocity of 85 pmol phosphate/min/ μ g kinase for phosphorylation of Crosstide, corresponding to a 5-fold increase compared to the wildtype enzyme ^[2] .				
Solvent&Solubility	<i>In Vitro:</i> H₂O : $\geq$ 50 mg/mL (42.95 mM) * " $\geq$ " means soluble, but saturation unknown.				
	Preparing Stock Solutions	SolventMassConcentration	1 mg	5 mg	10 mg
		1 mM	0.8589 mL	4.2947 mL	8.5894 mL
		5 mM	0.1718 mL	0.8589 mL	1.7179 mL
		10 mM	0.0859 mL	0.4295 mL	0.8589 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]. Bentley JK, et al. Rhinovirus activates interleukin-8 expression via a Src/p110beta phosphatidylinositol 3-kinase/Akt pathway in human airway epithelial cells. J Virol. 2007 Feb;81(3):1186-94. Epub 2006 Nov 22. [2]. Baer K, et al. Activation of a GST-tagged AKT2/PKBbeta. Biochim Biophys Acta. 2005 Oct 10;1725(3):340-7. Epub 2005 Apr 20.				
实验参考:					
Kinase Assay	After serum deprivation for 24 h, cells are incubated with digoxigenin-labeled sham protein or digoxigenin-labeled RV39 at an MOI of 1.0 for 10 min. Cell homogenates are immunoprecipitated with mouse anti-digoxigenin antibody and precipitates incubated with Crosstide and [γ - ³² P]ATP. Crosstide is a glycogen synthase kinase α/β fusion protein sequence (GRPRTSSFAEG) which is a substrate for Akt. Samples are processed for autoradiography and immunoblotting using rabbit anti-phospho-Tyr ⁴¹⁶ Src, mouse anti-Src (clone GD11), rabbit anti-phospho-Ser ⁴⁷³ , or rabbit anti-Akt. [1]				
	[1]. Bentley JK, et al. Rhinovirus activates interleukin-8 expression via a Src/p110beta phosphatidylinositol 3-kinase/Akt pathway in human airway epithelial cells. J Virol. 2007 Feb;81(3):1186-94. Epub 2006 Nov 22.				



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[2]. Baer K, et al. Activation of a GST-tagged AKT2/PKBbeta. Biochim Biophys Acta. 2005 Oct 10;1725(3):340-7. Epub 2005 Apr 20.



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