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产品名称: **BAX INHIBITING PEPTIDE V5 (BIP-V5)**

产品别名: **BIP-V5; BAX Inhibiting Peptide V5**

生物活性:

Description	Bax inhibitor peptide V5 (BIP-V5) is a Bax-mediated apoptosis inhibitor, used for cancer treatment.				
IC ₅₀ & Target	Bax				
In Vitro	Bax inhibitor peptide V5 (BIP-V5; 0-50 μM) reduces cell death in STF-cMyc cells but not in SW620 or NCI-H23 cells. BIPV5 does not result in any significant effect on cell cycle arrest at the G2/M phase[1]. V5 treatment upregulates expression of anti-apoptotic proteins Bcl-2 and XIAP by more than 3- and 11-fold and downregulates expression of apoptosis-inducing proteins Bax, Bad, and nuclear factor-κB-p65 by 10, 30, and nearly 50%, respectively[2].				
In Vivo	Bax inhibitor peptide V5 (BIP-V5; 100 μM) significantly improves islet function following isolation and improves islet graft function following transplantation in mice model[2].				
Solvent&Solubility	In Vitro: DMSO : ≥ 30 mg/mL (51.13 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	SolventMassConcentration	1 mg	5 mg	10 mg
		1 mM	1.7042 mL	8.5209 mL	17.0419 mL
		5 mM	0.3408 mL	1.7042 mL	3.4084 mL
		10 mM	0.1704 mL	0.8521 mL	1.7042 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]. Jo MJ, et al. Regulation of cancer cell death by a novel compound, C604, in a c-Myc-overexpressing cellular environment. Eur J Pharmacol. 2015 Dec 15;769:257-65. [2]. Rivas-Carrillo JD, et al. Cell-permeable pentapeptide V5 inhibits apoptosis and enhances insulin secretion, allowing experimental single-donor islet transplantation in mice. Diabetes. 2007 May;56(5):1259-67. Epub 2007 Feb 7.				
实验参考:					
Cell Assay	Cells (2.5×10 ⁴ cells/mL) are grown in 96-well plates in a final volume of 100 μL/well. After 24 h, cells are incubated with small molecules or vehicle (DMSO) for 48-96 h prior to harvest. 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide, a tetrazole (MTT) reagent (0.5 mg/mL), is added to each well during the final 2 h, and absorbance is measured. Cell growth is calculated as the ratio of absorbance obtained upon compound treatment to that obtained with vehicle (DMSO) treatment. [1]				
	[1]. Jo MJ, et al. Regulation of cancer cell death by a novel compound, C604, in a c-Myc-overexpressing cellular environment. Eur J Pharmacol. 2015 Dec 15;769:257-65.				



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