

Bax inhibitor peptide V5 acetate

Chemical Properties

CAS No. :

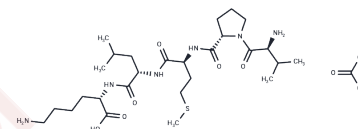
Formula: C₂₉H₅₄N₆O₈S

Molecular Weight: 646.85

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Bax inhibitor peptide V5 acetate (Bax inhibitor peptide V5 acetate (579492-81-2 free base)) is a Bax-mediated apoptosis inhibitor, used for cancer treatment.
Targets(IC50)	Apoptosis
In vitro	Bax inhibitor peptide V5 (BIP-V5; 0-50 μ M) decreases cell death in STF-cMyc cells but not in SW620 or NCI-H23 cells.[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- κ B-p65 by 10, 30, and nearly 50%, respectively[2].
In vivo	Bax inhibitor peptide V5 (BIP-V5; 100 μ M) significantly improves islet function following isolation and improves islet graft function following transplantation in mice model[2].

Solubility Information

Solubility	H ₂ O: 100 mg/mL (154.6 mM),Sonication is recommended. DMSO: 100 mg/mL (154.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	Saline: 100 mg/mL (154.6 mM),Heating is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.546 mL	7.7298 mL	15.4595 mL
5 mM	0.3092 mL	1.546 mL	3.0919 mL
10 mM	0.1546 mL	0.773 mL	1.546 mL
50 mM	0.0309 mL	0.1546 mL	0.3092 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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