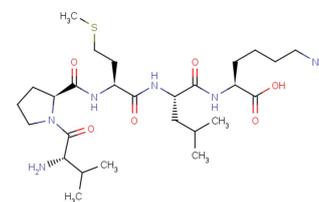


## Bax inhibitor peptide V5

### Chemical Properties

CAS No.:	579492-81-2
Formula:	C <sub>27</sub> H <sub>50</sub> N <sub>6</sub> O <sub>6</sub> S
Molecular Weight:	586.79
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	Bax inhibitor peptide V5 (BIP-V5) is a Bax-mediated apoptosis inhibitor with anticancer activity.
Targets(IC <sub>50</sub> )	Bax: None
In vitro	Bax inhibitor peptide V5 (0-50 μM) reduces cell death in STF-cMyc cells but not in NCI-H23 or SW620 cells. BIPV5 does not result in any significant effect on cell cycle arrest at the G2/M phase [1]. Bax inhibitor peptide 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	In mice model, Bax inhibitor peptide V5 (100 μM) significantly improves islet function following isolation and improves islet graft function following transplantation [2].

### Solubility Information

Solubility	DMSO: 30 mg/mL (51.13 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.704 mL	8.521 mL	17.042 mL
5 mM	0.341 mL	1.704 mL	3.408 mL
10 mM	0.17 mL	0.852 mL	1.704 mL
50 mM	0.034 mL	0.17 mL	0.341 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### 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.

Inhibitors · Natural Compounds · Compound Libraries

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