

Product Name: Bax inhibitor peptide V5

Catalog No.: 1785

Batch No.: 7

CAS Number: 579492-81-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₅₀N₆O₆S
Batch Molecular Weight: 586.79
Physical Appearance: White lyophilised solid
Net Peptide Content: 71%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Val-Pro-Met-Leu-Lys

2. ANALYTICAL DATA

HPLC: Shows 99% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys	1.00		0.97
Arg				Met	1.00		0.97
Asx				Phe			
Cys				Pro	1.00		1.02
Glx				Ser			
Gly				Thr			
His				Trp			
Ile				Tyr			
Leu	1.00		1.04	Val	1.00		0.99

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com
 info@bio-techne.com
 techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
 info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
 www.tocris.com/distributors
 Tel:+1 612 379 2956

Product Name: Bax inhibitor peptide V5

Catalog No.: 1785

Batch No.: 7

CAS Number: 579492-81-2

Description:

Cell-permeable synthetic peptide inhibitor of Bax conformational change and mitochondrial translocation. Designed based on the Bax-binding domain of human Ku70. Inhibits Bax-mediated apoptosis in vitro. Shown to inhibit anti-cancer drug-induced apoptosis in vitro. Control Peptide also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₇H₅₀N₆O₆S

Batch Molecular Weight: 586.79

Physical Appearance: White lyophilised solid

Peptide Sequence:

Val-Pro-Met-Leu-Lys

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 71% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

Licensing Information:

Sold under license

References:

Sawatzky et al (2006) The involvement of the apoptosis-modulating proteins ERK 1/2, Bcl-xL and Bax in the resolution of acute inflammation *in vivo*. *Am.J.Pathol.* **168** 33. PMID: 16400007.

Yoshida et al (2004) Bax-inhibiting peptide derived from mouse and rat Ku70. *Biochem.Biophys.Res.Comm.* **321** 961. PMID: 15358121.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956