

Product Name: Bax inhibitor peptide, negative control

Catalog No.: 1787

Batch No.: 2

CAS Number: 1315378-74-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₅₂N₆O₆S
Batch Molecular Weight: 600.82
Physical Appearance: White lyophilised solid
Net Peptide Content: 67%
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Ile-Pro-Met-Ile-Lys

2. ANALYTICAL DATA

HPLC: Shows 95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys	1.00		0.99
Arg				Met	1.00		1.04
Asx				Phe			
Cys				Pro	1.00		1.00
Glx				Ser			
Gly				Thr			
His				Trp			
Ile	2.00		2.00	Tyr			
Leu				Val			

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

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Description:

Negative control peptide for the Bax inhibitor peptides V5 and P5 (Cat. Nos. 1785 and 1786), which inhibit Bax translocation to mitochondria and Bax-mediated apoptosis in vitro.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₈H₅₂N₆O₆S

Batch Molecular Weight: 600.82

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ile-Pro-Met-Ile-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: 67% (Remaining weight made up of counterions and residual water).

Counter Ion: 95

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.

References:

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

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.

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