

**NIP3 BH3 Domain Peptide**  
**Synthetic Peptide**  
**Catalog # SP1019a****Specification**

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**NIP3 BH3 Domain Peptide - Product Information**

Primary Accession	<a href="#">O55003</a>
Other Accession	<a href="#">Q12983</a>
Sequence	<b>CPSLLLSHLLAIGLGIIYIGRRL</b>

**NIP3 BH3 Domain Peptide - Additional Information****Gene ID** 12176**Other Names**

BCL2/adenovirus E1B 19 kDa protein-interacting protein 3, Bnip3, Nip3

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NIP3 BH3 Domain Peptide - Protein Information****Name** Bnip3 {ECO:0000312|MGI:MGI:109326}**Synonyms** Nip3**Function**

Apoptosis-inducing protein that can overcome BCL2 suppression. May play a role in repartitioning calcium between the two major intracellular calcium stores in association with BCL2 (By similarity). Involved in mitochondrial quality control via its interaction with SPATA18/MIEAP: in response to mitochondrial damage, participates in mitochondrial protein catabolic process (also named MALM) leading to the degradation of damaged proteins inside mitochondria. The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane may play a critical role in the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix (By similarity). The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane regulates the opening of a pore in the mitochondrial double membrane in order to mediate the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix (By similarity). Plays an important role in the calprotectin (S100A8/A9)-induced cell death pathway (By similarity).

**Cellular Location**

Mitochondrion. Mitochondrion outer membrane; Single-pass membrane protein

Note=Coexpression with the E1B 19-kDa protein results in a shift in NIP3 localization pattern to the nuclear envelope. Colocalizes with ACAA2 in the mitochondria. Colocalizes with SPATA18 at the mitochondrion outer membrane (By similarity).

### **NIP3 BH3 Domain Peptide - Images**