

**FIS1 Blocking Peptide (N-term)**  
**Synthetic peptide**  
**Catalog # BP20678a****Specification**

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**FIS1 Blocking Peptide (N-term) - Product Information**Primary Accession [Q9Y3D6](#)**FIS1 Blocking Peptide (N-term) - Additional Information****Gene ID** 51024**Other Names**

Mitochondrial fission 1 protein, FIS1 homolog, hFis1, Tetratricopeptide repeat protein 11, TPR repeat protein 11, FIS1, TTC11

**Target/Specificity**

The synthetic peptide sequence is selected from aa 6-20 of HUMAN FIS1

**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.

**FIS1 Blocking Peptide (N-term) - Protein Information****Name** FIS1**Synonyms** TTC11**Function**

Involved in the fragmentation of the mitochondrial network and its perinuclear clustering (PubMed: [12783892](http://www.uniprot.org/citations/12783892), PubMed: [12861026](http://www.uniprot.org/citations/12861026), PubMed: [14996942](http://www.uniprot.org/citations/14996942), PubMed: [23283981](http://www.uniprot.org/citations/23283981)). Plays a minor role in the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface and mitochondrial fission (PubMed: [12861026](http://www.uniprot.org/citations/12861026), PubMed: [16118244](http://www.uniprot.org/citations/16118244), PubMed: [23283981](http://www.uniprot.org/citations/23283981), PubMed: [23530241](http://www.uniprot.org/citations/23530241), PubMed: [24196833](http://www.uniprot.org/citations/24196833)). May not be

essential for the assembly of functional fission complexes and the subsequent membrane scission event (PubMed:<a href="http://www.uniprot.org/citations/23530241" target="\_blank">23530241</a>, PubMed:<a href="http://www.uniprot.org/citations/24196833" target="\_blank">24196833</a>). Also mediates peroxisomal fission (PubMed:<a href="http://www.uniprot.org/citations/16107562" target="\_blank">16107562</a>). May act when the products of fission are directed toward mitochondrial homeostasis, mitophagy, or apoptosis (PubMed:<a href="http://www.uniprot.org/citations/24196833" target="\_blank">24196833</a>). Can induce cytochrome c release from the mitochondrion to the cytosol, ultimately leading to apoptosis (PubMed:<a href="http://www.uniprot.org/citations/12783892" target="\_blank">12783892</a>).

#### **Cellular Location**

Mitochondrion outer membrane; Single-pass membrane protein. Peroxisome membrane; Single-pass membrane protein

#### **FIS1 Blocking Peptide (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **FIS1 Blocking Peptide (N-term) - Images**

#### **FIS1 Blocking Peptide (N-term) - Background**

Involved in the fragmentation of the mitochondrial network and its perinuclear clustering. Plays a minor role in the recruitment and association of the fission mediator dynamin- related protein 1 (DNM1L) to the mitochondrial surface and mitochondrial fission. Can induce cytochrome c release from the mitochondrion to the cytosol, ultimately leading to apoptosis. Also mediates peroxisomal fission.

#### **FIS1 Blocking Peptide (N-term) - References**

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Hillier L.W.,et al.Nature 424:157-164(2003).  
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James D.I.,et al.J. Biol. Chem. 278:36373-36379(2003).  
Yoon Y.,et al.Mol. Cell. Biol. 23:5409-5420(2003).