### Description

Recombinant Human Mitochondrial Fission 1 Protein is produced by our E.coli expression system and the target gene encoding Met1-Gly122 is expressed with a 6His tag at the C-terminus.

**Accession #:** Q9Y3D6  
**Known as:** Mitochondrial Fission 1 Protein; FIS1 Homolog; hFis1; Tetratricopeptide Repeat Protein 11; TPR Repeat Protein 11; FIS1; TTC11; CGI-135

### Formulation

Lyophilized from a 0.2 μm filtered solution of 20mM Tris, pH 8.0.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

### Storage

Lyophilized protein should be stored at <-20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at <-20°C for 3 months.

### Reconstitution

*Always centrifuge tubes before opening. Do not mix by vortex or pipetting.*  
*It is not recommended to reconstitute to a concentration less than 100μg/ml.*  
Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

### Quality Control

**Purity:** Greater than 95% as determined by reducing SDS-PAGE.  
**Endotoxin:** Less than 0.1 ng/μg (1 IEU/μg).

### Amino Acid Sequence

MEAVLNELVSVEDLKFEEKFQSEKAAVSVESKSTQEYAYCRLVRSKYNNDDRGBKGLLEELPKGKEEQRDYYVFYLVAVGNYRLKYEYKALKYVRGLQTEPQNNQAKELERLIDKAMKDGEVHHTHH

### Background

Mitochondrial Fission 1 Protein (FIS1) is a member of the FIS1 family. FIS1 is a single-pass membrane protein and contains one TPR repeat. FIS1 is part of the mitochondrial complex that promotes mitochondrial fission. FIS1 can induce cytochrome C discharge from the mitochondrion to the cytosol, eventually leading to apoptosis. In addition, FIS1 participates in peroxisomal growth and division. The C-terminus of FIS1 is required for mitochondrial or peroxisomal localization, while the N-terminus is necessary for mitochondrial or peroxisomal fission, localization and regulation of the interaction with DNM1L.

### SDS-PAGE

![SDS-PAGE Image]