



Recombinant Protein Technical Manual

Recombinant Human Mitochondrial Fission 1 Protein/FIS1 Protein (His Tag) RPES4717

Product Data:

Product SKU: RPES4717

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9Y3D6

Protein Information:

Molecular Mass: 15.2 kDa

AP Molecular Mass: 14 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

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

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Mitochondrial Fission 1 Protein; FIS1 Homolog; hFis1; Tetratricopeptide Repeat Protein 11; TPR Repeat Protein 11; FIS1; TTC11; CGI35

Immunogen Information:

Sequence: Met 1-Gly122

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.