Cyclophilin F Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Peptidyl-prolyl cis-trans isomerase F mitochondrial, PPIase F, CyP-D, CypD, Mitochondrial cyclophilin, CyP-M, Rotamase F

Cat. No.:
RD172364100 (0.1 mg)

Description

Total 188 AA. MW: 20.1 kDa (calculated). UniProtKB acc.no. P30405 (Cys30-Ser207). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

Cyclophilins facilitate the process of protein folding. They catalyzes the cis-trans isomerization of proline imidic peptide bonds. Cyclophilin F is located in mitochondrion matrix. Cyclophilin F is involved in regulation of the mitochondrial permeability transition pore. It may activate or inhibit apoptosis or necrosis. It binds to an immunosuppressant cyclosporin.

Research topic

Apoptosis, Others

Amino Acid Sequence

MKHHHHHHAS CSKGSGDPSS SSSSGNPLVY LDVDANGKPL GRVVLELKAD VVPKTAENFR ALCTGEKGFG YKGSTFHRVI PSFMCQAGDF TNHNGTGGKS IYGSRFPDEN FTLKHVGPGV LSMANAGPNT NGSQFFICTI KTDWLDGKHV VFGHVKEGMD VVKKIESFGS KSGRTSKKIV ITDCGQLS

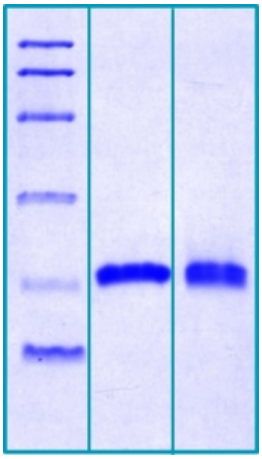
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >95%

SDS-PAGE gel



14 % SDS-PAGE separation of Human Cyclophilin F:

1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa

2. reduced and boiled sample, 2.5 µg/lane

3. non-reduced and non-boiled sample, 2.5 µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 20 mM Tris buffer, 100 mM NaCl, pH 7.5.

Reconstitution

Add 200 µl of deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

Shipping

At temperature 2 - 8°C. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at -80 °C. Lyophilized protein remains stable until the expiry date when stored at -80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80 °C for long term storage. Reconstituted protein can be stored at 4 °C for three days.

Quality Control Test

BCA to determine quantity of the protein.
SDS-PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

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