

Recombinant human PTRH2 protein

Catalog Number: ATGP0830

PRODUCT INFORMATION

Expression system

E.coli

Domain

64-179aa

UniProt No.

Q9Y3E5

NCBI Accession No.

NP_057161

Alternative Names

Peptidyl-tRNA hydrolase 2, BIT1, PTH2, CGI-147, Bcl-2 inhibitor of transcription 1

PRODUCT SPECIFICATION

Molecular Weight

14.9 kDa (137aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PTRH2 (peptidyl-tRNA hydrolase 2), also known as BIT1, is a mitochondrial protein. During apoptosis, PTRH2 is released from the mitochondria to the cytoplasm. Once in the cytoplasm, PTRH2 regulates the function of two transcriptional regulators, TLE5 and TLE1, thereby promoting caspase-independent cell death. The natural substrate for PTRH2 may be peptidyl-tRNAs which drop off the ribosome during protein synthesis. Recombinant human PTRH2 protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MEYKMILVVR NDLKMGKGKV AAQCShAAVS AYKQIQRRNP EMLKQWEYCG
QPKVVVKAPD EETLIALLAH AKMLGLTVSL IQDAGRTQIA PGSQTVLGIG PGPADLIDKV TGHLLKLY

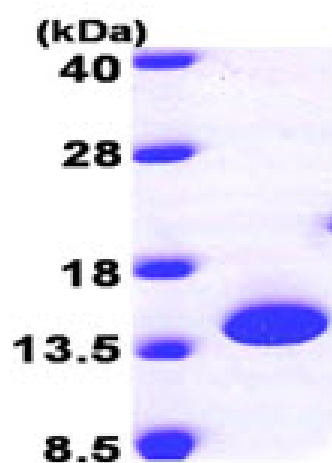
General References

Jan Y., et al. (2004) Cell. 116(5):751-62.

De Pereda JM., et al. (2004) J Biol Chem. 279(9):8111-5.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)