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# Recombinant human PTRH2 protein

Catalog Number: ATGP0830

#### **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

64-179aa

#### UniProt No.

**09Y3E5** 

#### **NCBI Accession No.**

NP 057161

#### **Alternative Names**

Peptidyl-tRNA hydrolase 2, BIT1, PTH2, CGI-147, BcI-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 petidyl-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**

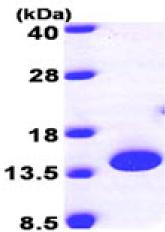
MGSSHHHHHH SSGLVPRGSH MEYKMILVVR NDLKMGKGKV AAQCSHAAVS AYKQIQRRNP EMLKQWEYCG QPKVVVKAPD EETLIALLAH AKMLGLTVSL IQDAGRTQIA PGSQTVLGIG PGPADLIDKV TGHLKLY

### **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**



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15% SDS-PAGE (3ug)

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

