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### Recombinant human TRPT1 protein

Catalog Number: ATGP1327

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-253aa

#### **UniProt No.**

086TN4

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

NP 001153862

#### **Alternative Names**

tRNA 2'-phosphotransferase 1, MGC11134, tRNA phosphotransferase 1

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

30.3 kDa (277aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 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**

TRPT1, also known as tRNA 2'-phosphotransferase 1, catalyzes the last step of tRNA splicing, the transfer of the splice junction 2'-phosphate from ligated tRNA to NAD to produce ADP-ribose 1"-2" cyclic phosphate. Recombinant human TRPT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

#### **Amino acid Sequence**

< MGSSHHHHHH SSGLVPRGSH MGSH>MNFSGG GROEAAGSRG RRAPRPREOD RDVOLSKALS YALRHGALKL



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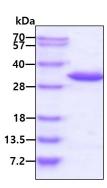
GLPMGADGFV PLGTLLQLPQ FRGFSAEDVQ RVVDTNRKQR FALQLGDPST GLLIRANQGH SLQVPKLELM PLETPQALPP MLVHGTFWKH WPSILLKGLS CQGRTHIHLA PGLPGDPGII SGMRSHCEIA VFIDGPLALA DGIPFFRSAN GVILTPGNTD GFLLPKYFKE ALQLRPTRKP LSLAGDEETE CQSSPKHSSR ERRRIQQ

#### **General References**

Hu Q.-D., et al. (2003) Cell. Mol. Life Sci. 60:1725-1732 Mayya V., et al. (2009) Sci. Signal. 2:RA46-RA46

### **DATA**

#### **SDS-PAGE**



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

