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# Recombinant human Cyclophilin-like 1/PPIL1 protein

Catalog Number: PPL0901

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-166aa

#### **UniProt No.**

09Y3C6

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

NP 057143

#### **Alternative Names**

Peptidyl-prolyl cis-trans isomerase-like 1, Peptidylprolyl isomerase like 1, Cyclophilin like 1, CYPL1, Rotamase PPIL1, PPlase

## **PRODUCT SPECIFICATION**

# **Molecular Weight**

19.3 kDa (174aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

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

#### **Purity**

> 95% by SDS-PAGE

## **Biological Activity**

Specific activity is > 700nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAPF-pNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.

### Tag

His-Tag

# **Application**

SDS-PAGE, Enzyme Activity

#### **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**

Peptidylprolyl isomerase (cyclophilin) -like 1, also known as PPIL1, is a member of peptidyl-propyl cis-trans isomerase (PPIase) family, which catalyzes the cis-trans isomerization of proline imidic peptide bonds in



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oligopeptides and accelerates the folding of proteins. Human PPIL1 might play an important role in proliferation of cancer cells through modulation of phosphorylation of stathmin. So it is expected as a novel molecular target for colon-cancer therapy. Recombinant PPIL1, fused to His-tag at C-terminus, was expressed in E. coli and purified by conventional chromatography techniques.

# **Amino acid Sequence**

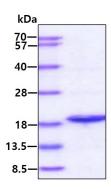
MAAIPPDSWQ PPNVYLETSM GIIVLELYWK HAPKTCKNFA ELARRGYYNG TKFHRIIKDF MIQGGDPTGT GRGGASIYGK QFEDELHPDL KFTGAGILAM ANAGPDTNGS QFFVTLAPTQ WLDGKHTIFG RVCQGIGMVN RVGMVETNSQ DRPVDDVKII KAYPSG<LEHH HHHH>

#### **General References**

Xu C., et al. (2006) J Biol Chem. 281(23):15900-8. Obama K., et al. (2006) Clin Cancer Res. 12(1):70-6.

# **DATA**

#### **SDS-PAGE**



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

