

# Recombinant human PELI2 protein

Catalog Number: ATGP2792

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-420aa

**UniProt No.**

Q9HAT8

**NCBI Accession No.**

NP\_067078

**Alternative Names**

E3 ubiquitin-protein ligase pellino homolog 2, PELI2 - pellino E3, Pellino-2

## PRODUCT SPECIFICATION

**Molecular Weight**

48.8 kDa (443aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

**Purity**

> 80% 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**

PELI2 is an E3 ubiquitin ligase catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. This protein is involved in the TLR and IL-1 signaling pathways via interaction with the complex containing IRAK kinases and TRAF6. It mediates IL1B-induced IRAK1 'Lys-63'-linked polyubiquitination and possibly 'Lys-48'-linked ubiquitination. PELI2 may be important for LPS- and IL1B-induced MAP3K7-dependent, but not MAP3K3-dependent, NF-kappa-B activation. It can activate the MAP (mitogen activated protein) kinase pathway leading to activation of ELK1. Recombinant human PELI2 protein, fused to His-tag at N-terminus, was expressed in E. coli

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and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMFSPGQE EHCAPNKEPV KYGELVVLGY NGALPNGDRG RRKSRFALYK  
 RPKANGVKPS TVHVISTPQA SKAISCKGQH SISYTLNRNQ TVVVEYTHDK DTDMFQVGRS TESPIDFVVT DTISGSQNTD  
 EAQITQSTIS RFACRIVCDR NEPYTARIFA AGFDSSKNIF LGEKAAKWKN PDGHMDGLTT NGVLVMHPRG GFTEESQPGV  
 WREISVCGDV YTLRETRSAQ QRGKLVESET NVLQDGSLID LCGATLLWRT ADGLFHTPTQ KHIEALRQEI NAARPQCPVG  
 LNTLAFPSIN RKEVVEEKQP WAYLSCGHVH GYHNWGHRS D TEANERECPM CRTVGPIYVPL WLGCEAGFYV DAGPPHTAFT  
 PCGHVCSEKS AKYWSQIPLP HGTHAFHAAC PFCATQLVGE QNCIKLIFQG PID

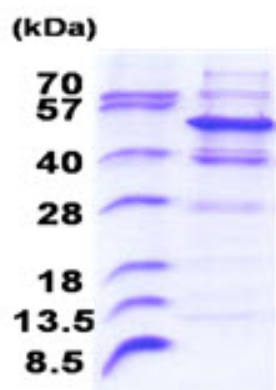
## General References

Jensen L.E., et al (2003). FEBS Lett. 545:199-202

Strelow A., et al (2003). FEBS Lett. 547:157-161

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)