

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

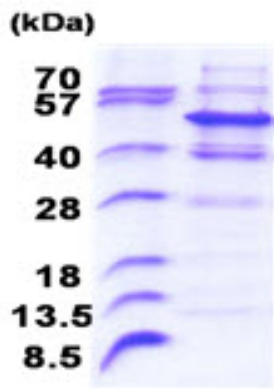
MGSSHHHHHH SSSLVPRGSH MGSMFSPGQE EHCAPNKEPV KYGELVVLGY NGALPNGDRG RRKSRFALYK
RPKANGVKPS TVHVISTPQA SKAISCKGQH SISYTLNRNQ TVVVEYTHDK DTFMFQVGRS TESPIDFVVT DTISGSQNTD
EAQITQSTIS RFACRIVCDR NEPYTARIFA AGFDSSKNIF LGEKAAKWKV PDGHMDGLTT NGVLVMHPRG GFTEESQPGV
WREISVCGDV YTLRETRSAQ QRGKLVESST NVLQDGLID LCGATLLWRT ADGLFHTPTQ KHIEALRQEI NAARPQCPVG
LNTLAFPSIN RKEVVEEKQP WAYLSCGHVH GYHNWGHRS DTEANERECPM CRTVGPYVPL WLGCEAGFYV DAGPPTHAF
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)