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

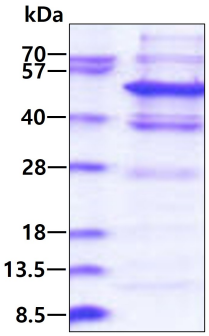
<MGSSHHHHHH SSGLVPRGSH MGS>MFSPGQE EHCAPNKEPV KYGELVVLGY NGALPNGDRG RRKSRFALYK RPKANGVKPS TVHVISTPQA SKAISCKGQH SISYTLSRNQ TVVVEYTHDK DTDMFQVGRS TESPIDFVVT DTISGSQNTD EAQITQSTIS RFACRIVCDR NEPYTARIFA AGFDSSKNIF LGEKAAKWKN PDGHMDGLTT NGVLVMHPRG GFTEESQPGV WREISVCGDV YTLRETRSAQ QRGKLVESET NVLQDGSLID LCGATLLWRT ADGLFHTPTQ KHIEALRQEI NAARPQCPVG LNTLAFPSIN RKEVVEEKQP WAYLSCGHVH GYHNWGHRSD TEANERECPM CRTVGPYVPL WLGCEAGFYV DAGPPTHAFT 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.