
Product Data Sheet

Product Name: PELI2 Human
 Cat. No.: GP24162
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Pellino E3 Ubiquitin Protein Ligase Family Member 2; Pellino-2;E3 Ubiquitin-Protein Ligase Pellino Homolog 2; Pellino (Drosophila) Homolog 2; PellinoHomolog 2 (Drosophila); Protein Pellino Homolog 2; Pellino Homolog 2; EC 6.3.2;PELI2.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMFSPGQE EHCAPNKEPV KYGELVVVLY NGALPNGDRG RRKSRFALYKRPKANGVKPS TVHVISTPQA SKAISCKGQH SISYTLSRNQ TVVVEYTHDK DTD MFQVGRS TESPIDFVVTDTISGSQNTD EAQITQSTIS RFACRIVCDR NEPYTARIFA AGFDSSKNIF LGEKAAKWKN PDGHMDGLTT NGVLVMHPRG GFTEESQPGVWREISVCGDV YTLRETRSAQ QRGKLVESET NVLQDGLID LCGATLLWRT ADGLFHTPTQ KHIEALRQEINAARPQCPVG LNTLAFPSIN RKEVVEEKQP WAYLSCGHVH GYHNWGHRS D TEANERECPM CRTVGPYVPL WLGCEAGFYV DAGPPHTAFT PCGHVCSEKS AKYWSQIPLPHGTHAFHAAC PFCATQLVGE QNCIKLIFQG PID.</p>		
Formulation	PELI2 protein solution (0.5mg/ml) containing 20mMTris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

Pellino E3 Ubiquitin Protein Ligase Family Member 2, also known as PELI2 is an E3 ubiquitin ligase which catalyzes the covalent attachment of ubiquitin moieties onto substrate proteins. PELI2 is implicated in the TLR and IL-1 signaling pathways through interaction with the complex which contain IRAK kinases and TRAF6. PELI2 also mediates IL1B-induced IRAK1 'Lys-63'-linked polyubiquitination and possibly 'Lys-48'-linked ubiquitination. PELI2 is significant for LPS- and IL1B-induced MAP3K7-dependent, however not for MAP3K3-dependent, NF-kappa-B activation. Moreover, PELI2 can activate the MAP (mitogen activated protein) kinase pathway directing to activation of ELK1.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PELI2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 443 amino acids (1-420 a.a) and having a molecular mass of 48.8kDa. PELI2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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