

PELI2 Protein, Human

Cat. No.:	HY-P702075
Synonyms:	PELI2; E3 ubiquitin-protein ligase pellino homolog 2; Pellino-2; RING-type E3 ubiquitin transferase pellino homolog 2
Species:	Human
Source:	E. coli
Accession:	Q9HAT8 (F2-D420)
Gene ID:	/
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PELI2, functioning as an E3 ubiquitin ligase, plays a crucial role in catalyzing the covalent attachment of ubiquitin moieties onto substrate proteins. It actively participates in the Toll-like receptor (TLR) and interleukin-1 (IL-1) signaling pathways by interacting with the complex containing IRAK kinases and TRAF6. Specifically, PELI2 mediates IL1B-induced 'Lys-63'-linked polyubiquitination of IRAK1, and potentially 'Lys-48'-linked ubiquitination, contributing to the intricate regulation of downstream signaling events. Furthermore, PELI2 is implicated in LPS- and IL1B-induced NF-kappa-B activation, specifically via the MAP3K7-dependent pathway. Notably, PELI2's influence extends to the MAP kinase pathway, ultimately resulting in the activation of ELK1. These findings highlight PELI2 as a multifaceted regulator at the intersection of crucial immune signaling cascades, emphasizing its significance in modulating inflammatory responses and cellular signaling.
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Caution: Product has not been fully validated for medical applications. For research use only.

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