

Cyclophilin B/PPIB Protein, Human (HEK293, His)

Cat. No.:	HY-P70011A
Synonyms:	Ephrin-A1; EPH-Related Receptor Tyrosine Kinase Ligand 1; LERK-1; Immediate Early Response Protein B61; Tumor Necrosis Factor Alpha-Induced Protein 4; TNF Alpha-Induced Protein 4; EFNA1; EPLG1; LERK1; TNFAIP4
Species:	Human
Source:	HEK293
Accession:	P23284 (D34-A212)
Gene ID:	5479
Molecular Weight:	Approximately 19 kDa

PROPERTIES

AA Sequence	<pre> DEKKKGP KVT V K V Y F D L R I G D E D V G R V I F G L F G K T V P K T V D N F V A L A T G E K G F G Y K N S K F H R V I K D F M I Q G G D F T R G D G T G G K S I Y G E R F P D E N F K L K H Y G P G W V S M A N A G K D T N G S Q F F I T T V K T A W L D G K H V V F G K V L E G M E V V R K V E S T K T D S R D K P L K D V I I A D C G K I E V E K P F A </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Cyclophilin B/PPIB Protein serves as a peptidyl-prolyl cis-trans isomerase (PPIase), actively engaging in the catalysis of cis-trans isomerization of proline imidic peptide bonds in oligopeptides, thus potentially contributing to the facilitation of protein folding. This enzymatic function underscores the protein's role in the dynamic process of promoting proper conformational changes in polypeptide chains, essential for their functional maturation. As a key player in the intricate realm of protein folding, Cyclophilin B/PPIB plays a crucial part in maintaining cellular protein homeostasis by facilitating
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the correct folding of nascent or misfolded polypeptides. The precise orchestration of these PPIase activities underscores the protein's importance in cellular physiology, warranting further exploration to unveil the specific molecular mechanisms and cellular pathways through which Cyclophilin B/PPIB contributes to protein folding dynamics.

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

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