

FKBP2 Protein, Human (HEK293, His)

Cat. No.:	HY-P70333
Synonyms:	rHuPeptidyl-prolyl cis-trans isomerase FKBP2Gene/FKBP2, His; Peptidyl-prolyl cis-trans isomerase FKBP2(FKBP2 for short); also named 13 kDa FK506-binding protein; FK506-binding protein 2; Immunophilin FKBP13; Rotamase
Species:	Human
Source:	HEK293
Accession:	P26885 (A22-L142)
Gene ID:	2286
Molecular Weight:	Approximately 17.0 kDa

PROPERTIES

AA Sequence	<p>A T G A E G K R K L Q I G V K K R V D H C P I K S R K G D V L H M H Y T G K L E</p> <p>D G T E F D S S L P Q N Q P F V F S L G T G Q V I K G W D Q G L L G M C E G E K</p> <p>R K L V I P S E L G Y G E R G A P P K I P G G A T L V F E V E L L K I E R R T E</p> <p>L</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
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	<p>FKBP2 Protein takes center stage as a pivotal participant in the intricate process of protein folding, showcasing its essential role as a peptidyl-prolyl cis-trans isomerase (PPIase). With a distinctive capacity to catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides, FKBP2 actively accelerates the dynamic conformational changes crucial for the efficient folding of proteins. This enzymatic activity underscores FKBP2's significance in facilitating the correct maturation and structural integrity of nascent or misfolded polypeptides, thereby contributing to the overall maintenance of cellular protein homeostasis. As a member of the PPIase family, FKBP2 plays a fundamental role in the intricate ballet of protein folding, warranting further exploration to unravel the specific molecular mechanisms and cellular contexts through</p>
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which FKBP2 actively engages in this crucial cellular process.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA