

FKBP11 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76344
Synonyms:	Peptidyl-prolyl cis-trans isomerase FKBP11; PPIase FKBP11; FKBP-19; Rotamase; FKBP-11
Species:	Human
Source:	HEK293
Accession:	Q9NYL4 (G28-G155)
Gene ID:	51303
Molecular Weight:	Approximately 40.4-45 kDa.

PROPERTIES

AA Sequence	<p> G L E T E S P V R T L Q V E T L V E P P E P C A E P A A F G D T L H I H Y T G S L V D G R I I D T S L T R D P L V I E L G Q K Q V I P G L E Q S L L D M C V G E K R R A I I P S H L A Y G K R G F P P S V P A D A V V Q Y D V E L I A L I R A N Y W L K L V K G </p>
Biological Activity	Specific activity is 3735.130 nmoL/min/mg, and is defined as the amount of enzyme that cleaves 1 nmole of suc-AAPF-pNA per minute at 37°C in Tris-HCl pH 8.0 using chymotrypsin.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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	<p>FKBP11 Protein takes center stage as a peptidyl-prolyl cis-trans isomerase (PPIase) that plays a crucial role in expediting the folding of proteins, particularly within the intricate context of protein synthesis. Harnessing its enzymatic prowess, FKBP11 facilitates the rapid and precise conformational changes necessary for the correct folding and maturation of proteins. As a member of the PPIase family, FKBP11 adeptly catalyzes the cis-trans isomerization of proline imidic peptide bonds, thus influencing the dynamic structural transitions of nascent or misfolded polypeptides. This functional attribute underscores</p>
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the protein's vital contribution to maintaining cellular protein homeostasis, hinting at its potential impact on diverse cellular processes. Further exploration is warranted to uncover the specific molecular mechanisms through which FKBP11 actively engages in the intricate ballet of protein folding during synthesis.

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