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**Product Data Sheet**


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Product Name: FKBP14 Human  
 Cat. No.: GP21624  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	FKBP22; FKBP-14; FK506 Binding Protein 14; FKBP14; EC=5.2.1.8; PPlase FKBP14; Peptidyl-prolyl cis-trans isomerase FKBP14; FLJ20731.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MALIPEPEVK IEVLQKPFIC HRKTKGGDLM LVHYEGYLEK DGSLFHSTHK HNNGQPIWFT LGILEALKGW DQGLKGMCVG EK RKLIIPPA LGYGKEGK GK IPPESTLIFN IDLLEIRNGP RSHESFQEMD LNDDWKLSKD EVKAYLKKEF EKHGAVVNES HHDALVEDIF DKEDEDKDG F ISAREFTYKH DEL.		
Formulation	FKBP14 Human (1mg/ml) solution containing 1x PBS pH-7.4, & 10% glycerol.		

**Introduction**

FKBP14 enzyme accelerates the folding of proteins during protein synthesis. FKBP14 contains 2 EF-hand domains and one PPlase FKBP-type domain. Truncation of the amino-terminus of FKBP14 significantly decreases peptidyl prolyl cis-trans isomerase activity, therefore implicating that the PPlase FKBP-type domain must be located at the N-terminus.

**Biological Activity**

Specific activity is > 240 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25°C in Tris-HCl pH8.0 using chymotrypsin.

**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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

FKBP14 Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide chain containing 213 amino acids (20-211 a.a.) and having a molecular mass of 24.2 kDa. The FKBP14 is fused to 21 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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