

## Product datasheet for **AR09541PU-N**

### FKBP14 / FKBP22 (20-211, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	FKBP14 / FKBP22 (20-211, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MALIPEPEVK IEVLQKPFIC HRKTKGGDLM LVHYEGYLEK DGSLFHSTHK HNNGQPIWFT LGILEALKGW DQGLKGMCVG EKRKLIIPPA LGYGKEGK GK IPPESTLIFN IDLLEIRNGP RSHESFQEMD LNDDWKLKSD EVKAYLKKEF EKHGAVVNES HHDALVEDIF DKEDEDKDG F ISAREFTYKH DEL
Tag:	His-tag
Predicted MW:	24.2 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: PBS, pH 7.4, containing 10% glycerol
Bioactivity:	Specific: > 240 nmoles/min/mg, defined as the amount of enzyme that cleaves 1 umole of suc-AAPF-pNA per minute at 25°C in Tris-HCl pH 8.0 using chymotrypsin
Preparation:	Liquid purified protein
Applications:	Protocol: <b>Activity Assay</b> 1. Prepare 170 ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-HCl, pH 8.0, and 20nM chymotrypsin. 2. Add 10 ul of recombinant FKBP14 protein with 1 ug in assay buffer. 3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer. 4. Add 20 ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM) 5. Record the increase in A405 nm for 30 minutes at 25°C.
Protein Description:	Recombinant human FKBP14 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.



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<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_060416</a>
<b>Locus ID:</b>	55033
<b>UniProt ID:</b>	<a href="#">Q9NWM8</a> , <a href="#">A0A090N7V8</a>
<b>Cytogenetics:</b>	7p14.3
<b>Synonyms:</b>	EDSKMH; EDSKSCL2; FKBP22; IPBP12
<b>Summary:</b>	The protein encoded by this gene is a member of the FK506-binding protein family of peptidyl-prolyl cis-trans isomerases. The encoded protein is found in the lumen of the endoplasmic reticulum, where it is thought to accelerate protein folding. Defects in this gene are a cause of a type of Ehlers-Danlos syndrome (EDS). Both a protein-coding variant and noncoding variants are transcribed from this gene. [provided by RefSeq, Mar 2012]
<b>Protein Families:</b>	Druggable Genome

**Product images:**