

Product datasheet for **AR09070PU-N**

Cyclophilin F (30-207, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Cyclophilin F (30-207, 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> CSKGSGBPSS SSSSGNPLVY LDVDANGKPL GRVLELKAD VVPKTAENFR ALCTGEKGFY YKGFSTFHRVI PSFMCQAGDF TNHNGTGGKS IYGSRFPDEN FTLKHVGPV LSMANAGPNT NGSQFFICTI KTDWLDGKHV VFGHVKEGMD VVKKIESFGS KSGRTSKKIV ITDCGQLS
Tag:	His-tag
Predicted MW:	21 kDa
Concentration:	lot specific
Purity:	>95% by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris pH 7.5, 1 mM DTT, 10% glycerol
Bioactivity:	Specific: > 250 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.
Endotoxin:	< 1.0 EU per 1 µg of protein (determined by LAL method)
Preparation:	Liquid purified protein
Applications:	Protocol: Activity Assay 1. Prepare 170 µl 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 µl of recombinant Cyclophilin F (PPIF) protein with 1 µg 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 µl pre-chilled 5mM suc-AAPF-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.



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Protein Description:	Recombinant PPIF protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_005720
Locus ID:	10105
UniProt ID:	P30405 , A0A024QZS4
Cytogenetics:	10q22.3
Synonyms:	Cyp-D; CyP-M; CYP3; CypD
Summary:	The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein is part of the mitochondrial permeability transition pore in the inner mitochondrial membrane. Activation of this pore is thought to be involved in the induction of apoptotic and necrotic cell death. [provided by RefSeq, Jul 2008]

Product images:

