

Product datasheet for **AR09314PU-N**

Cyclophilin G / PPIG (1-175, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Cyclophilin G / PPIG (1-175, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SGLVPRGSH</u> MGIKVQRPRC FFDIANNQP AGRVVFELFS DVCPKTCENF RCLCTGEKGT GKSTQKPLHY KSCLFHRVVK DFMVQGGDFS EGNRGGESI YGGFFEDES AVKHNKEFLL SMANRGKDTN GSQFFITTKP TPHLDGHHV FGQVISGQEV VREIENQKTD AASKPFAEVR ILSCG
Tag:	His-tag
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol
Bioactivity:	Specific: > 200 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: Activity Assay 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 1 ug of recombinant Cyclophilin G protein to 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 Cyclophilin G, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.



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Storage:	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.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_004783
Locus ID:	9360
UniProt ID:	Q13427
Cytogenetics:	2q31.1
Synonyms:	CARS-Cyp; CYP; SCAF10; SRCyp
Summary:	PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding (PubMed:20676357). May be implicated in the folding, transport, and assembly of proteins. May play an important role in the regulation of pre-mRNA splicing.[UniProtKB/Swiss-Prot Function]

Product images: