

Cyclophilin A Active Protein | PPIA active protein

Cyclophilin A, 1-165aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48477	HOST E Coli	APPLICATIONS SDS-Page
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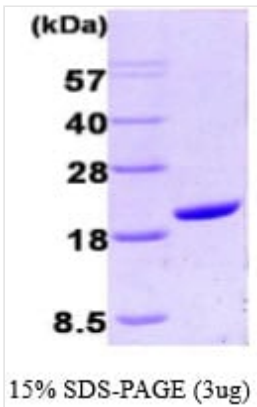
PRODUCT SYNONYMS

Cyclophilin A; 1-165aa; Human; E Coli (Bioactivity Validated); Peptidylprolyl isomerase A; CYPA; CYPH; MGC12404; MGC23397; MGC117158; Cyclosporin A binding protein; Peptidyl prolyl cis trans isomerase A; PPIA; PPIA protein; PPIase A; Rotamase A; RotamaseA; T cell cyclophilin.; PPIA active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	In 20mM Tris pH 8.0, 20mM NaCl, 0.5mM DTT, 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	1-165aa
Sequence	MGSSHHHHH SSGLVPRGSH MVNPTVFFDI AVDGEPLGRV SFELFADKVP KTAENFRALS TGEKGFYKG SCFHRIIPGF MCQGGDFTRH NGTGGKSIYG EKFEDENFIL KHTGPGILSM ANAGPNTNGS QFFICTAKTE WLDGKHVVFG KVKEGMNIVE AMERFGSRNG KTSKKITIAD CGQLE
Applicable Applications for PPIA active protein	Enzyme Activity, SDS-PAGE
Antigen Species	Human
Tag	His-Tag
Endotoxin Level	< 1.0 EU per 1ug of protein (determined by LAL method)
Biological Activity	Specific activity is > 650 nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAFP-PNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.
Preparation and Storage	Can be stored at 2-8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for PPIA active protein	Cyclophilin A (also known as Peptidylprolyl isomerase A, PPIA) encodes a member of the peptidyl-prolyl cis-trans isomerase family. They are highly-conserved cytoplasmic enzymes that accelerate protein folding. Cyclophilin A is also incorporated into many viruses, including HIV-1, where it has been speculated to be involved in functions such as viral assembly and infectivity. Recombinant human PPIA, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for PPIA active protein	Cell Cycle
References	Holzman, T.F., et al, (1991). J. Biol. Chem. 266 (4): 2474-2479; Berthoux L, et al, (2005). Proc Natl Acad Sci u S A. 102 (41):14849-53;

NCBI AND UNIPROT INFORMATION

NCBI GI #	10863927
NCBI GeneID	5478
NCBI Accession #	NP_066953
NCBI GenBank Nucleotide #	NM_021130.4
UniProt Accession #	P62937; P05092; Q3KQW3; Q567Q0; Q6IBU5; Q96IX3; Q9BRU4; Q9BTY9; Q9UC61; A8K220
Molecular Weight	20kDa (185aa), confirmed by MALDI-TOF.
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase A isoform 1
NCBI Official Synonym Full Names	peptidylprolyl isomerase A
NCBI Official Symbol	PPIA
NCBI Official Synonym Symbols	CYPA; CYPH; HEL-S-69p
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase A
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase A
UniProt Gene Name	PPIA
UniProt Synonym Gene Names	CYPA; PPlase A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

