

Recombinant Rat Ppif, His-tagged

Cat. No. Ppif-109R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Ppif was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Rat
Source	E.coli
Description	Ppif also known as Peptidyl-prolyl cis-trans isomerase F, mitochondrial. Ppif accelerates the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and involved in regulation of the mitochondrial permeability transition pore (mPTP). It is proposed that its association with the mPTP is masking a binding site for inhibiting inorganic phosphate (Pi) and promotes the open probability of the mPTP leading to apoptosis or necrosis the requirement of the PPIase activity for this function is debated.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	21.2Da (200aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSCSDGGAR GANSSSQNPL VYLDVGADGQ PLGRVVLELK ADVVPKTAEN FRALCTGEKG FGYKGSTFHRVIPAFMCQAG DFTNHNGTGG KSIYGSRFPD ENFTLKHVGP GVLSMANAGP NTNGSQFFIC TIKTDWLDGK HVVFGHVKEG MDVVKKIESFGSKSGKTSKK IVITDCGQLS
Purity	>90% by SDS - PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	Ppif peptidylprolyl isomerase F [Rattus norvegicus]
Official Symbol	Ppif
Synonyms	PPIF; peptidylprolyl isomerase F; peptidyl-prolyl cis-trans isomerase F, mitochondrial; PPIase F; rotamase F; cyclophilin D; cyclophilin F; PPIase; MGC93084;
Gene ID	282819
mRNA Refseq	NM_172243
Protein Refseq	NP_758443
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Parkinsons disease, organism-specific biosystem; Toxoplasmosis, organism-specific biosystem; Toxoplasmosis, conserved biosystem;
Function	cyclosporin A binding; isomerase activity; peptide binding; peptidyl-prolyl cis-trans isomerase activity; protein binding;

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