

Active Recombinant Human Peptidylprolyl Isomerase F, His-tagged

Cat. No. PPIF-1101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PPIF (NP_005720, 30 a.a. ~ 207 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
Description	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.
Sequence	MGSSHHHHHSSGLVPRGSHCSK GSGDPSSSSSSGNPLVYLDVDANG KPLGRVVLELKADVPKTAENFRALC TGEKGFYKGSTFHRVIPSFMCQA GDFTNHNGTGGKSIYGSRFPDENF TLKHVGPVLSMANAGPNTNGSQ FFICTIKTDWLDGKHVVFGHVKEGM DVVKKIESFGSKSGRTSKKIVITDCGQLS
Theoretical MW (kDa)	21
Form	Liquid
Preparation Method	Escherichia coli expression system

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Purity	μ 95% by SDS-PAGE
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method).
Activity	Specific activity is > 120 nmoles/min/ug, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 1 °C in Tris-HCl pH 8.0 using chymotrypsin.
Application	SDS-PAGE; Functional Study
Storage Buffer	In 20 mM Tris, pH 7.5 (1 mM dithiothreitol, 10% glycerol).
Storage	Store at 4°C for 1~2 weeks. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P30405
Functions	isomerase activity; peptide binding; peptidyl-prolyl cis-trans isomerase activity

GENE INFORMATION

Gene Name	PPIF peptidylprolyl isomerase F [Homo sapiens]
Official Symbol	PPIF
Synonyms	PPIF; peptidylprolyl isomerase F; CYP3; Cyp-D; FLJ90798; MGC117207; peptidylprolyl isomerase F; PPlase; Rotamase; cyclophilin 3; cyclophilin D; cyclophilin F; peptidyl-prolyl cis-trans isomerase, mitochondrial; EC 5.2.1.8; hCyP3; peptidylprolyl isomerase F (cyclophilin F); peptidyl-prolyl cis-trans isomerase, mitochondrial; OTTHUMP00000019925

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Gene ID	10105
mRNA Refseq	NM_005729
Protein Refseq	NP_005720
MIM	604486
Chromosome Location	10q22-q23
PDB rendering based on 2bit. 	