

## PPIF Human

**Description:** PPIF Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 198 amino acids (30-207) and having a molecular mass of 21 kDa. The PPIF is fused to a 20 amino acid His tag at N-terminus and is purified by proprietary chromatographic techniques.

Catalog #: ENPS-392

For research use only.

**Synonyms:** Oeptidylprolyl Isomerase F, PPIF, CYP-D, CYP3, SnuCyp-20, Peptidyl-prolyl cis-trans isomerase mitochondrial, Cyclophilin F, FLJ90798, MGC117207, peptidylprolyl isomerase F.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH CSKGSGDPSS SSSSGNPLVY  
LDVDANGKPL GRVVLELKAD VVPKTAENFR ALCTGEKGFG YKGSTFHRVI PSFMCQAGDF  
TNHNGTGGKS IYGSRFPDEN FTLKHVGPV LSMANAGPNT NGSQFFICTI KTDWLDGKHV  
VFGHVKEGMD VVKKIESFGS KSGRTSKKIV ITDCGQLS.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

PPIF solution containing 20mM Tris-HCl pH-7.5, 10% glycerol and 1mM DTT.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

PPIF is a part of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIF accelerates the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. PPIF is key component 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.

**Biological Activity:**

Specific activity is > 250 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25C in Tris-Hcl pH8.0 using chymotrypsin.

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