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## Product Data Sheet

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Product Name: PPIF Human

Cat. No.: GP21529

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptidylprolyl Isomerase F; PPIF; CYP-D; CYP3; SnuCyp-20; Peptidylprolyl cis-trans isomerase mitochondrial; Cyclophilin F; FLJ90798; MGC117207; peptidylprolyl isomerase F.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH CSKGS GDPSS SSSGNPLVY LDVDANGKPL GRVVLELKAD VVPKTAENFR ALCTGEKGFY YKGSTFHRVI PSFMCQAGDF TNHNGTGGKS IYGS RFPDEN FTLKHVGPV LSMANAGPNT NGSQFFICTI KTDWLDGKHV VFGHVKEGMD VVKKIESFGS KSGRTSKKIV ITDCGQLS.		
Formulation	PPIF solution containing 20mM Tris-HCl pH-7.5, 10% glycerol and 1mM DTT.		

**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.

**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%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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.

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