

Recombinant Human PPIF Protein (S43-S207), Tag Free

Cat. No. PPIF-0852H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human tCypD (S43-S207) (K175I) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	S43-S207
Description	PPIase that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and may therefore assist protein folding. 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. In cooperation with mitochondrial p53/TP53 is involved in activating oxidative stress-induced necrosis. Involved in modulation of mitochondrial membrane F(1)F(0) ATP synthase activity and regulation of mitochondrial matrix adenine nucleotide levels. Has anti-apoptotic activity independently of mPTP and in cooperation with BCL2 inhibits cytochrome c-dependent apoptosis.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	PPIF peptidylprolyl isomerase F [Homo sapiens (human)]
Official Symbol	PPIF
Synonyms	PPIF; peptidylprolyl isomerase F; peptidylprolyl isomerase F (cyclophilin F); peptidyl-prolyl cis-trans isomerase F, mitochondrial; cyclophilin D; Cyp D; hCyP3; PPIase F; rotamase F; cyclophilin 3; cyclophilin F; peptidyl-prolyl cis-trans isomerase, mitochondrial; CYP3; Cyp-D; FLJ90798; MGC117207;
Gene ID	10105
mRNA Refseq	NM_005729
Protein Refseq	NP_005720
MIM	604486
UniProt ID	P30405

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