

Active Recombinant Human Peptidylprolyl Isomerase G, His-tagged

Cat. No. PPIG-1102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PPIG (AAH01555, 1 a.a. ~ 175 a.a.) partial recombinant protein with His tag 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	MGSSHHHHHSSGLVPRGSHMGIKVQRPRC- FFDIAINNQPAGRVVFELFSDVCPK TCENFRC LCTGEKGTGKSTQKPLHYKSCLFHRVVKDFM VQGGDFSEGNRGGES IYGGFFEDESFAVKH NKEFLLSMANRGKDTNGSQFFITTKPTPHLDG HHVVFQVI SGQEVVREIENQKTDAASKPFAEVRILSCG
Theoretical MW (kDa)	21.6
Form	Liquid
Preparation Method	Escherichia coli expression system

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Purity	μ 95% by SDS-PAGE
Activity	Specific activity is > 75 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	Q13427
Functions	cyclosporin A binding; isomerase activity; peptidyl-prolyl cis-trans isomerase activity

GENE INFORMATION

Gene Name	PPIG peptidylprolyl isomerase G (cyclophilin G) [Homo sapiens]
Official Symbol	PPIG
Synonyms	PPIG; peptidylprolyl isomerase G (cyclophilin G); CYP; SRCyp; CARS-Cyp; MGC133241; peptidylprolyl isomerase G; Clk-associating RS-cyclophilin; peptidyl-prolyl isomerase G (cyclophilin G); EC 5.2.1.8; CARS-cyclophilin; CASP10; SR-cyclophilin; SR-cyclophilin; SR-cyp; Cyclophilin G; PPIase G; Peptidyl-prolyl isomerase G; Peptidyl-prolyl cis-trans isomerase G; Rotamase G
Gene ID	9360

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mRNA Refseq [NM_004792](#)

Protein Refseq [NP_004783](#)

MIM [606093](#)

Chromosome
Location [2q31.1](#)

PDB rendering based
on 2gw2.

