

## Cyclophilin G Human

**Description:** Cyclophilin-G Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 195 amino acids (1-175 a.a.) and having a molecular mass of 21.6 kDa. Cyclophilin-G is fused to a 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

Catalog #: ENPS-470

For research use only.

**Synonyms:** Peptidyl-prolyl cis-trans isomerase G, PPlase G, Rotamase G, PPIG, peptidylprolyl isomerase G, Cyclophilin G, Peptidyl-prolyl isomerase G, Rotamase G, Clk-associating RS-cyclophilin, CARS-cyclophilin, CARS-Cyp, SR-cyclophilin, SR-cyp, SRCyp, CASP10, CYP,

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGIKVQRPRC FFDAINNQP  
AGR VV FELFS DVCPKTCENF RCLCTGEKGT GKSTQKPLHY KSCLFHRVVK DFMVQGGDFS  
EGNGRGGESI YGGFFEDES AVKHNKPELL SMANRGKDTN GSQFFITTKP TPHLDGHHVV  
FGQVISGQEV VREIENQKTD AASKPFAEVR ILSCG.

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

### Formulation:

Cyclophilin-G solution containing 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.

### 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:

Cyclophilin-G is a member of the peptidyl-prolyl cis-trans isomerase (PPlase) family. PPlases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and speeds up the protein folding. PPIG catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and is involved in the folding, transport, and assembly of proteins. PPIG is localized to the nuclear speckles, a nuclear compartment rich in splicing factors, and cooperates with the splicing factors SC35 and pinin. Cyclophilin-G also takes part in the regulation of pre-mRNA splicing.

### Biological Activity:

Specific activity is > 200 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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