

## Cyclophilin A Protein, Human, Recombinant (His) V2

### General Information

Synonyms:	HEL-S-69p;CYPH;peptidylprolyl isomerase A (cyclophilin A);CYPA
Protein Construction:	Val2-Glu165
Species:	Human
Expression Host:	E. coli
Accession:	P62937
Molecular Weight:	18.8 kDa (Predicted); 15-20 kDa (Reducing conditions)

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as a 0.2 μm filtered solution of PBS, 10% Glycerol, 1mM DTT, pH 7.4.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Cyclophilin A, also known as peptidylprolyl isomerase A (PPIA), is an 18 kDa protein that catalyzes cis-trans isomerization at proline imidic peptide bonds, thereby promoting protein folding/trafficking and regulating protein activity. Cyclophilin A has multiple known functions in inflammation. Intracellularly, cyclophilin A interacts with interleukin (IL)-2 inducible T cell kinase (ITK) to tune T cell receptor signaling. Extracellularly, cyclophilin A is known to function as a leukocyte chemotactic factor. Cells secrete cyclophilin A by a vesicular secretory pathway in response to lipopolysaccharide and oxidative stress, or cyclophilin A may be released during cell death. Cyclophilin A influences inflammatory responses through its actions on immune activation and/or leukocyte trafficking.

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