Recombinant Protein Technical Manual

Recombinant Human Cyclophilin A Protein

RPES3919

Product Data:

Product SKU: RPES3919

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P62937

Protein Information:

Molecular Mass: 18 kDa

AP Molecular Mass: 16 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as a 0.2 µm filtered solution of PBS, 10%glycerol,pH7.4

.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Peptidyl-prolyl cis-trans isomerase A; PPIase A; Cyclophilin A; Cyclosporin A-binding protein; Rotamase A; SP18; PPIA; CYPA

Immunogen Information:

Sequence: Met 1-Glu165

Background:

Peptidyl-prolyl cis-trans isomerase A is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family, which catalyzes the cis-trans isomerization of proline imidic peptide bonds. Cyclophilin A regulate many biological processes, including intracellular signaling, transcription, inflammation, and apoptosis. Cyclophilin is also incorporated into many viruses, including HIV1, where it has been speculated to be involved in functions such as viral assembly and infectivity. The immunosuppressive activity of cyclosporins has been correlated with their ability to form complexes with cyclophilins that inhibit calcineurin phosphatase activity and prevent incorporation of cyclophilin into viral particles. The cyclosporin/cyclophilin complex selectively binds and inactivates calcineurin, making it a useful inhibitor for studying calcineurin activity.