



Recombinant Protein Technical Manual
Recombinant Mouse Cyclophilin A Protein (His Tag)
RPES3060

Product Data:

Product SKU: RPES3060

Size: 100µg

Species: Mouse

Expression host: E. coli

Uniprot: NP_032933.1

Protein Information:

Molecular Mass: 18.8 kDa

AP Molecular Mass: 17 kDa

Tag: C-His

Bio-activity:

Purity: > 97 % as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4, 10% glycerol

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

Application:

Synonyms: 2700098C05 Protein, Mouse;Cphn Protein, Mouse;CyP8 Protein, Mouse;CypA Protein, Mouse

Immunogen Information:

Sequence: Met 1-Leu 164

Background:

Peptidyl-prolyl cis-trans isomerase A, also known as PPIase A, Rotamase A, Cyclophilin A, Cyclosporin A-binding protein, PPIA and CYPA, is a cytoplasm protein which belongs to the cyclophilin-type PPIase family and PPIase A subfamily. Cyclophilins (CyPs) are a family of proteins found in organisms ranging from prokaryotes to humans. These molecules exhibit peptidyl-prolyl isomerase activity, suggesting that they influence the conformation of proteins in cells. PPIA / Cyclophilin A accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. PPIA / Cyclophilin A is secreted by vascular smooth muscle cells in response to inflammatory stimuli, and could thus contribute to atherosclerosis. It is not essential for mammalian cell viability. PPIA / Cyclophilin A can interact with several HIV proteins, including p55 gag, Vpr, and capsid protein, and has been shown to be necessary for the formation of infectious HIV virions.