

Cyclophilin B Protein, Human, Recombinant (His)

General Information

Synonyms:	CYPB;peptidylprolyl isomerase B (cyclophilin B);HEL-S-39;SCYLP;CYP-S1;OI9
Protein Construction:	Asp34-Ala212
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P23284
Molecular Weight:	20.9 kDa (predicted); 21 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 6% Sucrose, 4% Mannitol, 50mM NaCl, 0.05% Tween 80, pH 6.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

PPIB is identified as a candidate gene for OI-IX. Osteogenesis imperfecta (OI) is an inherited disorder of connective tissue typically caused by defects in either COL1A1 or COL1A2. A number of other genes causative of this disorder have been found, including PPIB, which forms one subunit of the prolyl 3-hydroxylase enzyme complex. Patients with OI caused by PPIB mutation should have appropriate early and regular management of their hearing.

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