



Recombinant Protein Technical Manual

Recombinant Human P4HB Protein (His Tag)

RPES3471

Product Data:

Product SKU: RPES3471

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: NP_000909.2

Protein Information:

Molecular Mass: 55.9 kDa

AP Molecular Mass: 68 kDa

Tag: C-6His

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, pH 7.4.

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

Application:

Synonyms: DSI;ERBA2L;GIT;P4Hbeta;PDI;PDIA1;PHDB;PO4DB;PO4HB;PROHB;Protein Disulfide-Isomerase; PDI; Cellular Thyroid Hormone-Binding Protein; Prolyl 4-Hydroxylase Subunit Beta; p55

Immunogen Information:

Sequence: Asp18-Lys505

Background:

Protein Disulfide-Isomerase (P4HB) is an endoplasmic reticulum lumen protein that belongs to the protein disulfide isomerase family. P4HB contains two thioredoxin domains and catalyzes the formation, breakage, and rearrangement of -S-S- bonds in proteins. P4HB is involved in hydroxylation of prolyl residues in procollagen. P4HB has the ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner. P4HB plays a role in both the influx and efflux of S-nitrosothiol-bound nitric oxide.