

Recombinant Human Protein Disulfide Isomerase

Catalog No: #AP60409

Package Size: #AP60409-1 100ug #AP60409-2 500ug

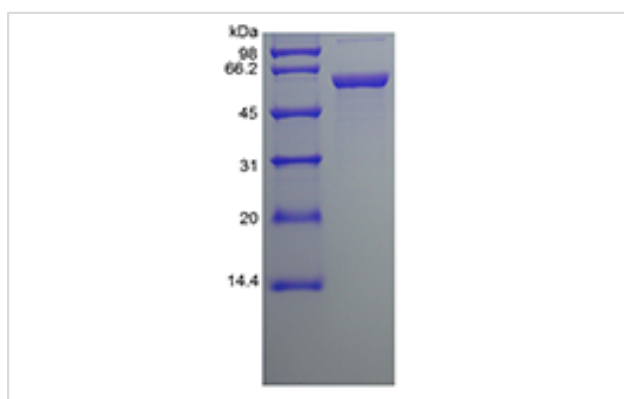
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Description

Product Name	Recombinant Human Protein Disulfide Isomerase
Host Species	Escherichia coli
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	Cellular Thyroid Hormone-binding Protein, Prolyl 4-hydroxylase Subunit beta, p55
Calculated MW	Approximately 56.6 kDa, a single non-glycosylated polypeptide chain containing 502 amino acids. (MRGSGSHHHHH-PDI).
Target Sequence	MRGSGSHHHH HHAPEEEDHV LVLKSNFAE ALAAHKYLLV EFYAPWCGHC KALAPEYAKA AGKKAEGSE IRLAKVDATE ESDLAQQYGV RGYPTIKFFR NGDTASPKEY TAGREADDIV NWLKKRTGPA ATLTPDGAEE ESLVESSEVA VIGFFKDVES DSAKQLQAA EAIDDIPFGI TSNSDVFSKY QLDKDGTVLF KKFDEGRNNF EGEVTKENLL DFIKHNQLPL VIEFTEQTAP KIFGGEIKTH ILLFLPKSVS DYDGKLSNFK TAAESFKGKI LFIFIDSDHT DNQRILEFFG LKKEECPAVR LITLEEEMTK YKPESEELTA ERITEFCHRF LEGKIKPHLM SQELPEDWDK QPVKVLVGN FEDVAFDEKK NVFVEFYAPW CGHCKQLAPI WDKLGETYKD HENIVIAKMD STANEVEAVK VHSFPTLKFF PASADRTVID YNGERTLDGF KKFLESGGQD GAGDDDDLED LEEAEPPDME EDDDQKAVKD EL
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.0.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Protein disulfide isomerases (PDIs) constitute a family of structurally related enzymes which catalyze disulfide bonds formation, reduction, or isomerization of newly synthesized proteins in the lumen of the endoplasmic reticulum (ER). They act also as chaperones, and are, therefore, part of a quality-control system for the correct folding of the proteins in the same subcellular compartment. PDI has been found to have moderate effects (25-fold) on the rate of oxidative folding of proteins in vitro. Recombinant Human Protein Disulfide Isomerase is involved in disulphide-bond formation and isomerization, as well as the reduction of disulphide bonds in proteins. Recombinant PDI has been found to have moderate effects (25-fold) on the

rate of oxidative folding of proteins in vitro.

Note: This product is for in vitro research use only