
Product Data Sheet

Product Name: P4HB Mouse

Cat. No.: GP22042

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein disulfide-isomerase; PDI; Cellular thyroidhormone-binding protein; Endoplasmic reticulum resident protein 59; ER protein59; ERp59; Prolyl 4-hydroxylase subunit beta; p55.		
Amino Acid Sequence	DALEEDNVL VLKKSNFEEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAAAKLKAEGSEI RLAKVDATEE SDLAQQYGVR GYPTIKFFKN GDTASPKEYT AGREADDIVN WLKKRTGPAATTLSDTAAAE SLVDSSEVTV IGFFKDVESD SAKQFLAAE AIDDIPFGIT SNSGVFSKYQLDKDGVVLFK KFDEGRNNFE GEITKEKLLD FIKHNQLPLV IEFTEQTAPKIFGGEIKTHI LLFLPKSVSD YDGKLSSFKR AAEGFKGKIL FIFIDSDHTD NQRILEFFGL KKEECPAVRLITLLEEEMTKY KPESDELTAE KITEFCHRFL EGKIKPHLMS QEVPEDWDKQ PVKVLVGANFEEVAFDEKKN VFVEFYAPWCGHCKQLAPIW DKLGETYKDH ENIIIAKMDS TANEVEAVKV HSFPTLKFFP ASADRTVIDY NGERTLDGFK KFLESGGQDGAGDDEDLDLE EALEPDMEED DDQKAVKDEL LEHHHHHH.		
Formulation	P4HB protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

P4HB is a multifunctional and highly abundant enzyme that is part of the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, P4HB has a role in hydroxylation of prolyl residues in procollagen. P4HB is a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

P4HB produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 498 amino acids (20-509 a.a.) and having a molecular mass of 56.1 kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57 kDa). P4HB is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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