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Datasheet for ABIN7479158

P4HB Protein (AA 29-313, partial) (GST tag)

1 Image

Overview

Quantity:	100 µg
Target:	P4HB
Protein Characteristics:	AA 29-313, partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This P4HB protein is labelled with GST tag.
Application:	ELISA

Product Details

Sequence:	LRKSNFAEAL AAHKYLLVEF YAPWCGHCKA LAPEYAKAAG KLKAEGSEIR LAKVDATEES DLAQYGVVRG YPTIKFFRNG DMAPSKEYTA GREADDIVNW LKKRTGPAAT TLPDGAAAES LVESSEVAVI GFFKDVESDS AKQFLQAAEA IDDIPFGITS NSDVFSKYQL DKDGVVLFKK FDEGRNNFEG EVTKENLLDF IKHNQLPLVI EFTEQTAPKI FGGEIKTHIL LFLPKSVSDY DGKLSNFKTA AESFKGKILF IFIDSDHTDN QRILEFFGLK KEECP
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.
Purity:	95 %

Target Details

Target:	P4HB
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Target Details

Alternative Name:	Protein disulfide-isomerase protein (P4HB Products)
Background:	This multifunctional protein catalyzes the formation, breakage and rearrangement of disulfide bonds. At the cell surface, seems to act as a reductase that cleaves disulfide bonds of proteins attached to the cell. May therefore cause structural modifications of exofacial proteins. Inside the cell, seems to form/rearrange disulfide bonds of nascent proteins. At high concentrations, functions as a chaperone that inhibits aggregation of misfolded proteins. At low concentrations, facilitates aggregation (anti-chaperone activity). May be involved with other chaperones in the structural modification of the TG precursor in hormone biogenesis. Also acts a structural subunit of various enzymes such as prolyl 4-hydroxylase and microsomal triacylglycerol transfer protein MTTP
Molecular Weight:	59.1 kD
UniProt:	P07237
Pathways:	Maintenance of Protein Location , Cell RedoxHomeostasis , Lipid Metabolism

Application Details

Comment:	The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	0.2-2 mg/mL
Buffer:	Tris-based buffer, 50 % glycerol
Handling Advice:	Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to

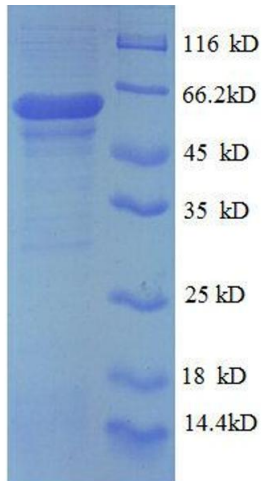
Handling

one week

Storage: -20 °C

Storage Comment: Store at -20 °C for extended storage, conserve at -20 °C or -80 °C

Images



SDS-PAGE

Image 1. Prolyl 4-Hydroxylase, beta Polypeptide (P4HB) (AA 29-313), (partial) protein (GST tag)