

Product datasheet for PH302275

P4HB (NM_000918) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	P4HB MS Standard C13 and N15-labeled recombinant protein (NP_000909)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202275
Predicted MW:	57.1 kDa
Protein Sequence:	>RC202275 protein sequence Red=Cloning site Green=Tags(s)

MLRRALLCLAVAALVRADAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKL
KAEGSEIRLAKVDATEESDLAQYGVRYPTIKFFRNGDTASPKEYTAGREADDIVNWLKKRTGPAATTL
PDGAAAESLVESSEVAVIGFFKDVESDSAKQFLQAAEAIDDIPFGITSNSDVFSKYQLDKDGVVLFKKFD
EGRNNEFEVTKENLLDFIKHNQLPLVIEFTEQTAPKIFGGEIKTHILLFLPKSVSDYDGKLSNFKTAAE
SFKGKILFIFIDSDHTDNQRILEFFGLKKEECPAVRLITLEEEMTKYKPESEELTAERITEFCHRFLEGG
IKPHLMSQELPEDWDKQPVKVLVGNFEDVAFDEKKNVVEFYAPWCGHCKQLAPIWDKLGETYKDHENI
VIAKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGQDGAGDDDDLEDLEEA
EPPDMEEDDDQKAVKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000909</u>
RefSeq Size:	2596
RefSeq ORF:	1524



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Synonyms: CLCRP1; DSI; ERBA2L; GIT; P4Hbeta; PDI; PDIA1; PHDB; PO4DB; PO4HB; PROHB

Locus ID: 5034

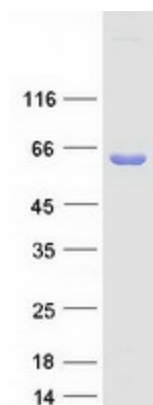
UniProt ID: [P07237](#), [A0A024R8S5](#)

Cytogenetics: 17q25.3

Summary: This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified P4HB protein (Cat# [TP302275]). The protein was produced from HEK293T cells transfected with P4HB cDNA clone (Cat# [RC202275]) using MegaTran 2.0 (Cat# [TT210002]).