



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### P4HB (Human) Recombinant Protein (P01)

**Catalog Number:** H00005034-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human P4HB full-length ORF ( NP\_000909.2, 1 a.a. - 508 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MLRRALLCLAVAALVRADAPEEEDHVLVLRKSNFAEAL  
AAHKYLLVEFYAPWCGHCKALAPEYAKAAGKLAEGS  
EIRLAKVDATEESDLAQQYGVRGYPTIKFFRNGDTASP  
KEYTAGREADDIVNWLKVRTGPAATLPGAAAESLV  
ESSEVAVIGFFKDVESDSAQFLQAAEAIDDPFGITSN  
SDVFSKYQLDKDGVVLFKKFDEGRNNEFEVTKENLL  
DFIKHNQLPLVIEFTEQTAPKIFGGEIKTHILLFLPKSVSD  
YDGKLSNFKTAAESFKGKILFIDSDHTDNQRILEFFGL  
KKEECPAVRLITLEEEMTKYKPESEELTAERITEFCHRF  
LEGKIKPHLMSQELPEDWDKQPVKVLVGKNFEDVAFD  
EKKNVFVEFYAPWCGHCKQLAPIWDLKGETYKDHENI  
VIKMDSTANEVEAVKVHSFPTLKFPPASADRTVIDYN  
GERTLDGFKKFLESGGQDGAGDDDDLEDLEEAEPPD  
MEEDDDQKAVKDEL

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 83.5

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5034

**Gene Symbol:** P4HB

**Gene Alias:** DSI, ERBA2L, GIT, P4Hbeta, PDI, PDIA1, PHDB, PO4DB, PO4HB, PROHB

**Gene 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]