Native Human Protein Z, Vitamin K-Dependent Plasma Glycoprotein

Cat. No. PROZ-5470H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human PROZ isa glycoprotein derived from fresh frozen plasma by a combination ofprecipitations and column chromatography.
Species	Human
Source	Human Plasma
Description	Protein Z alsoknown as PROZ is a protein which in humans is encoded by the PROZ gene.Protein Z is a member of the coagulation cascade, the group of blood proteinsthat leads to the formation of blood clots. It is vitamin K-dependent, andits functionality is therefore impaired in warfarin therapy. It is aglycoprotein.
Form	Frozen liquid in0.05M Tris-HCl Buffer + 0.1M NaCl, pH 7.5.
Molecular Mass	62 kDa
Endotoxin	< 0.1="" ng/μg="" ofprotein="">
Purity	≥95% by SDS-PAGEanalysis. Shows no reduction upon incubation with 2-mercaptoethanol.
Storage	Store at -80°C.Stable for 3 years from delivery. Avoid repeated freeze/thaw cycles.
Concentration	5.0 mg/ml

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GENE INFORMATION

Gene Name	PROZ protein Z, vitamin K-dependent plasma glycoprotein [Homo sapiens]
Official Symbol	PROZ
Synonyms	PROZ; protein Z, vitamin K-dependent plasma glycoprotein; vitamin K-dependent protein Z; PZ;
Gene ID	8858
mRNA Refseq	NM_001256134
Protein Refseq	NP_001243063
MIM	176895
UniProt ID	P22891
Chromosome Location	13q34
Pathway	Gamma-carboxylation of protein precursors, organism-specific biosystem; Gamma-carboxylation, transport, and amino-terminal cleavage of proteins, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; PTM: gamma carboxylation, hypusine formation and arylsulfatase activation, organism-specific biosystem; Post-translational protein modification, organism-specific biosystem; Removal of aminoterminal propeptides from gamma-carboxylated proteins, organism-specific biosystem; Transport of gamma-carboxylated protein precursors from the endoplasmic reticulum to the Golgi apparatus, organism-specific biosystem;

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Function	calcium ion binding; catalytic activity; serine-type endopeptidase activity;

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