

Recombinant Human PROZ Protein, His-tagged

Cat. No. PROZ-2626H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PROZ Protein (Thr282-Asn400) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr282-Asn400
Description	This gene encodes a liver vitamin K-dependent glycoprotein that is synthesized in the liver and secreted into the plasma. The encoded protein plays a role in regulating blood coagulation by complexing with protein Z-dependent protease inhibitor to directly inhibit activated factor X at the phospholipid surface. Deficiencies in this protein are associated with an increased risk of ischemic arterial diseases and fetal loss. Mutations in this gene are the cause of protein Z deficiency. Alternate splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.9 kDa Accurate Molecular Mass: 17/15 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PROZ protein Z, vitamin K-dependent plasma glycoprotein [Homo sapiens (human)]
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

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UniProt ID

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