



Human PROS1 peptide (DAG-P1092)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a vitamin K-dependent plasma protein that functions as a cofactor for the anticoagulant protease, activated protein C (APC) to inhibit blood coagulation. It is found in plasma in both a free, functionally active form and also in an inactive form complexed with C4b-binding protein. Mutations in this gene result in autosomal dominant hereditary thrombophilia. An inactive pseudogene of this locus is located at an adjacent region on chromosome 3. [provided by RefSeq, Feb 2009]
Specificity	Plasma.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 4 EGF-like domains.Contains 1 Gla (gamma-carboxy-glutamate) domain.Contains 2 laminin G-like domains.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	PROS1 protein S (alpha) [Homo sapiens (human)]
Official Symbol	PROS1
Synonyms	PROS1; protein S (alpha); PSA; PROS; PS21; PS22; PS23; PS24; PS25; THPH5; THPH6; vitamin K-dependent protein S; protein Sa; vitamin K-dependent plasma protein S;

Entrez Gene ID	5627
mRNA Refseq	NM_000313.3
Protein Refseq	NP_000304.2
UniProt ID	P07225
Chromosome Location	3q11.2
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Gamma-carboxylation of protein precursors, organism-specific bios
Function	calcium ion binding; endopeptidase inhibitor activity;