Human Protein S(Plasma) Human Reference standard

Cat. No. PROS1-177H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The reference Standard for Protein S, Plasma, Human, consists of ampoules containing 1 ml aliquots of pooled fresh human plasma, freeze-dried. This standard has been assigned potencies for total and free Protein S antigen and for Protein S function.
Species	Human
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution Reconstitute the total contents of each ampoule of the Standard with 1.0ml of distilled water, using gentle shaking. Transfer the reconstitutes Standard to a plastic tube and keep on melting ice. Under these conditions the standard has been found to be sufficiently stable to be used over a 4 hour period. Storage of the reconstituted Standard under different conditions must be validated locally by users.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.
Stability	Reference materials are held at Creative Biomart within assured, temperature-

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	controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. Accelerated degradation studies, which involve potency estimation of ampoules stored at elevated temperatures relative to ampoules stored at below -150°C, have shown that the material is very stable in unopened ampoules stored at -20°C. Predicted loss over one year whilst stored at - 20°C is less than 0.1% for all measured parameters. These studies have shown that when stored at -20°C or below the assigned values will remain valid until the material is withdrawn or replaced. Once reconstituted the activity of this preparation is assured for three hours when stored on melting ice.
Storage	Unopened ampoules should be stored at -20°C or below. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	PROS1 protein S (alpha) [Homo sapiens];
Official Symbol	PROS1
Synonyms	PSA; PROS; PS21; PS22; PS23; PS24; PS25; THPH5; THPH6; vitamin K-dependent protein S; protein Sa; vitamin K-dependent plasma protein S
Gene ID	5627
mRNA Refseq	NM_000313
Protein Refseq	NP_000304
MIM	176880

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UniProt ID	P07225
Chromosome Location	3q11.2
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Innate Immune System, organism-specific biosystem
Function	calcium ion binding; endopeptidase inhibitor activity

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