Human Plasmin Reference standard

Cat. No. PLG-161H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Standard for plasmin, consists of ampoules containing the residue after freeze-drying of a solution of a highly purified preparation of human plasmin admixed with human albumin, lactose and buffer salts. The potency was assigned as the geometric mean of all valid assays in all laboratories, giving a value of 5.3 IU per ampoule..
Species	Human
Enzyme Unit	5.3 IU per ampoule.
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-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. A physiological assay using fibrin in a clot lysis assay was used at Creative Biomart to assess the loss of potency in degradation samples stored at elevated temperatures for 38 weeks, as well as the chromogenic procedure. The clot lysis assay was specifically used because of earlier observations that loss of

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	enzymatic activity due to heat degradation is best measured using a natural substrate such as fibrin. The clot lysis assays appear to detect some degradation at +37°C and +45°C. For the clot lysis assays, the long term stability of the proposed Standard for plasmin was predicted using the Arrhenius equation. The predicted losses are 0.79% per year at the storage temperature of -20°C and 1.94% per month at 37°C. Since the assay in routine use is the chromogenic assay the degradation from such assays was also used to assess stability for 38 weeks.
Storage	Unopened ampoules should be stored in the dark at or below –20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	PLG plasminogen [Homo sapiens];
Official Symbol	PLG
Synonyms	PLG; plasminogen; plasmin; DKFZp779M0222;
Gene ID	5340
mRNA Refseq	NM_001168338
Protein Refseq	NP_001161810
MIM	173350
UniProt ID	P00747
Chromosome	6q26

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Location	
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Degradation of the extracellular matrix, organism-specific biosystem;
Function	apolipoprotein binding; cell surface binding; peptidase activity; protein binding; protein domain specific binding; serine-type endopeptidase activity;

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