

Human Blood Coagulation Factor IX Reference standard

Cat. No. F9-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This batch of standard, consists of ampoules containing aliquots of freeze-dried blood coagulation factor IX, concentrate, is intended for the calibration of factor IX functional activity in therapeutic concentrates by clotting assay.
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Species	Human
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Enzyme Unit	The overall mean potency assigned is 7.9 IU/ampoule.
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Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. Allow the ampoule to equilibrate at room temperature for 10 minutes. Reconstitute the total content with 1.0 ml distilled water using gentle agitation. Transfer the content to a plastic tube. Assays should be carried out as soon as possible upon reconstitution. A study in one laboratory has shown that the reconstituted material was stable up to 3 hours when stored on melting ice. It is not recommended to freeze thaw aliquots after reconstitution for subsequent use.
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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.
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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. The stability of this standard has been assessed in an accelerated degradation study which involved potency estimation of ampoules stored at elevated temperatures relative to ampoules stored at -150°C. Estimation of predicted loss has indicated no loss of activity when stored at -20°C, and at +20°C less than 0.2% activity per year which supports the shipment of this standard at ambient temperature. The accelerated degradation study and real time monitoring will continue for the lifetime of the standard.

Storage

Unopened ampoules should be stored in the dark 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

F9 coagulation factor IX [Homo sapiens];

Official Symbol

F9

Synonyms

F9; coagulation factor IX; Christmas disease; Factor IX; FIX; hemophilia B; plasma thromboplastic component; F9 p22; FIX F9; factor 9; factor IX F9; serine protease; Christmas factor; plasma thromboplastin component; P19; PTC; HEMB; THPH8; MGC129641; MGC129642;

Gene ID

2158

mRNA Refseq

NM_000133

Protein Refseq

NP_000124

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MIM	300746
UniProt ID	P00740
Chromosome Location	Xq26.3-q27.1
Pathway	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; Extrinsic Pathway, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Gamma-carboxylation of protein precursors, organism-specific biosystem;
Function	calcium ion binding; peptidase activity; serine-type endopeptidase activity;

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