

For life science research only.
Not for use in diagnostic procedures.



Plasminogen

Profibrinolysin from human serum

 **Version: 11**

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Lyophilized

Cat. No. 10 874 477 001 20 U

Store the product at +2 to +8°C.

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1. General Information

1.1. Contents

Vial / Bottle	Label	Function / Description	Content
1	Plasminogen from human serum	Lyophilizate stabilized with bovine serum albumin (BSA). <i>i</i> The serum used for this preparation was tested for HBs antigen and for the presence of antibodies to HIV-1, HIV-2, HCV, and found to be negative according to the current quality control procedures.	1 vial, 20 U

1.2. Storage and Stability

Storage Conditions (Product)

When stored at +2 to +8°C, the product is stable through the expiry date printed on the label.

Vial / Bottle	Label	Storage
1	Plasminogen	Store at +2 to +8°C. ⚠ Store dry.

Storage Conditions (Working Solution)

A solution in 20 mM sodium phosphate buffer, pH approximately 7.5, 100 mM NaCl is stable for several months without loss of activity when stored at –15 to –25°C.

⚠ Plasminogen is susceptible to autolysis, which may result in activation. Contact with the skin or other contamination, such as by microorganisms must be avoided.

1.3. Application

Use Plasminogen for the following applications:

- Determination of activity of plasminogen activators.
- Substrate for t-PA in the t-PA test.
- Reference substance for t-PA therapy.
- In-process control in the production of t-PA.

2. How to Use this Product

2.1. Parameters

Contaminants

Plasmin: <0.05% (+37°C, Chromozym PL* as substrate).

i *The product is free from 6-aminohexanoic acid.*

Molecular Weight

90,000 to 94,000 Da

Specific Activity

Approximately 11 U/mg Plasminogen at +37°C, pH 7.4, following activation with streptokinase, Chromozym PL as substrate.

3. Additional Information on this Product

3.1. Test Principle

Plasminogen, the proenzyme of the fibrinolytically active enzyme plasmin, is a single chain glycoprotein.

- Various isoelectric forms exist and can be separated by means of isoelectric focusing (IEF).
- The entire amino acid sequence contains 790 amino acids.
- Native plasminogen (glu-plasminogen) has a N-terminal glutamic acid group. Partial plasma proteolysis gives rise to a molecule with N-terminal lysine (lys-plasminogen). Cleavage with elastase results in val-plasminogen.

4. Supplementary Information



4.1. Conventions




To make information consistent and easier to read, the following text conventions and symbols are used in this document to highlight important information:

Text convention and symbols

 *Information Note: Additional information about the current topic or procedure.*

 **Important Note: Information critical to the success of the current procedure or use of the product.**

   etc. Stages in a process that usually occur in the order listed.

   etc. Steps in a procedure that must be performed in the order listed.

* (Asterisk) The Asterisk denotes a product available from Roche Diagnostics.

4.2. Changes to previous version

Layout changes.

Editorial changes.

4. Supplementary Information

4.3. Trademarks

All product names and trademarks are the property of their respective owners.

4.4. License Disclaimer

For patent license limitations for individual products please refer to:

List of biochemical reagent products.

4.5. Regulatory Disclaimer

For life science research only. Not for use in diagnostic procedures.

4.6. Safety Data Sheet

Please follow the instructions in the Safety Data Sheet (SDS).

4.7. Contact and Support

To ask questions, solve problems, suggest enhancements or report new applications, please visit our **Online Technical Support Site.**

To call, write, fax, or email us, visit **sigma-aldrich.com**, and select your home country. Country-specific contact information will be displayed.

