**Plasminogen**

*(Profibrinolysin)*

From human serum

**Cat. No. 10 874 477 001**

20 U

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**Product overview**

**Formulation**

Lyophilizate, stabilized with bovine serum albumin (BSA).

*Note:* 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.

**Source**

Plasminogen is isolated from human serum (1).

**Specific activity**

Approx. 11 U/mg plasminogen (37°C, pH 7.4, following activation with streptokinase, Chromozym PL* as substrate).

**Contaminants**

Plasmin: < 0.05% (37°C, Chromozym PL as substrate). The product is free from 6-aminohexanoic acid.

**Description**

Plasminogen, the proenzyme of the fibrinolytically active enzyme plasmin, is a single chain glycoprotein with a molecular weight of about 90,000-94,000 Da (2). Various isoelectric forms exist and can be separated by means of isoelectric focusing (IEF).

The complete 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.

(Roche Diagnostics supplies glu-plasminogen.)

**Application**

(3,4,5,6)

- 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

**Storage and stability**

The lyophilizate is stable at +2 to +8°C, if stored dry, until the expiration date printed on the label.

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

*Note:* Plasminogen is susceptible to autolysis, which may result in activation.

Contact with the skin or other contamination, e.g. by microorganisms, is therefore to be avoided.

**References**


**Ordering Information**

<table>
<thead>
<tr>
<th>Product</th>
<th>Pack size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coagulation factors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plasmin</td>
<td>5 U (1 ml)</td>
<td>10 602 370 001</td>
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<tr>
<td>Protease substrates</td>
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<tr>
<td>Chromozym PL (substrate for plasmin)</td>
<td>20 mg</td>
<td>10 378 461 001</td>
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<td>Chromozym TH (substrate for thrombin)</td>
<td>20 mg / 100 mg</td>
<td>10 206 849 001 / 11 585 398 001</td>
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<tr>
<td>Chromozym t-PA (substrate for t-PA stimulator)</td>
<td>20 mg</td>
<td>11 093 037 001</td>
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</table>

* available from Roche Diagnostics

**Changes to previous version**

- Editorial changes

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