**PlasminChrom**  
Catalog No: 100-01

**Application:** Highly sensitive chromogenic substrate for plasmin.

**Sequence:** H-D-Val-Leu-Lys-pNA·2HCl

<table>
<thead>
<tr>
<th>Structure</th>
<th>MW</th>
<th>$^*K_{cat}$</th>
<th>$^*K_{m}$</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Structure" /></td>
<td>551.6 g/mol</td>
<td>12 s$^{-1}$</td>
<td>0.2 mM</td>
</tr>
</tbody>
</table>

$K_m$ and $K_{cat}$ is reported using the following buffer: 50 mM Tris, 0.15 mM NaCl, pH 7.4, 37 °C.

**Aliquot size:** 5mg PlasminChrom and 20mg mannitol. Soluble in distilled water.

**Storage:** 2-8°C

Substrate may be used until expiration date on label when stored unopened (protected from light and moisture).  
Once reconstituted substrate expires within 6 months. Must avoid contamination by micro-organisms.

**Reconstitution:**

<table>
<thead>
<tr>
<th>Desired concentration (mM)</th>
<th>Volume of H$_2$O to add (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4.532</td>
</tr>
<tr>
<td>3</td>
<td>3.022</td>
</tr>
<tr>
<td>4</td>
<td>2.266</td>
</tr>
</tbody>
</table>

**Sample protocol for determination of plasmin:**

Materials needed but not provided:

- 50 mM Tris, 110 mM NaCl, 0.5% BSA, pH 7.4. Warm to 37°C prior to use.
- 50% Glycerol, pH 3.0. Warm to 37°C prior to use.

Plasmin: Dilute plasmin 1:100 to 0.150 µg/mL in 50% glycerol, pH 3.0. Use positive displacement pipette for this step (990 µL buffer + 10 µL sample). Reconstitute the substrate to 3 mM.

**Protocol:**

- Reaction Mix: Add 0.5 mL of substrate to 1.7 mL of substrate buffer, place at 37°C
- Add 900 µL of Reaction Mix and 100 µL of diluted plasmin
- Measure ΔOD/min at 405 nm for 2 min at 37°C.