Lumi-Phos HRP

ELISA HRP Substrate

Lumi-Phos HRP (PS-atto) is a proprietary acridan based chemiluminescent substrate for ELISA detection of horseradish peroxidase (HRP) conjugated molecules. Lumi-Phos HRP couples a broad dynamic range with rapid generation of sustained luminescence.

- **Excellent sensitivity** – less than 5 pg/mL of target protein in plate based ELISA
- **Rapid peak intensity** – reduced assay time and increased throughput
- **Sustained luminescence** – timing is less critical
- **Temperature insensitive** – analytical results are insensitive to temperatures from 22°C - 35°C reducing the need for precise temperature control

**Reaction Mechanism**

![Reaction Mechanism Diagram](image)

**Excellent Sensitivity**

![Excellent Sensitivity Graph](image)

**Rapid Peak Intensity**

![Rapid Peak Intensity Graph](image)

**Figure 1.** Lumi-Phos HRP couples a broad dynamic range with rapid generation of sustained luminescence and superior storage stability to provide unmatched convenience to the user.

**Figure 2.** Lumi-Phos HRP reaches a sustained maximum light-output peak intensity within seconds of substrate addition. Signal intensities can be read at any time along the profile to produce linear calibration curves.
## Product Specifications

<table>
<thead>
<tr>
<th>Enzyme</th>
<th>Horseradish Peroxidase (HRP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>ELISA</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>Low picogram to femtogram</td>
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</tbody>
</table>

## Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>Lumi-Phos HRP (100 mL)</td>
<td>PSA-100</td>
</tr>
<tr>
<td>Lumi-Phos HRP (1 L)</td>
<td>PSA-1000</td>
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</tbody>
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Please visit [www.LUMIGEN.com](http://www.LUMIGEN.com) or contact LUMIGEN to request a quote.

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