**Product datasheet**

**Recombinant Hirudin protein ab73660**

**Description**

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Recombinant Hirudin protein</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Biological activity</strong></td>
<td>The specific activity was found to be &gt;14,000ATU/mg.</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 95% SDS-PAGE. ab73660 is purified by proprietary chromatographic techniques. Purity is greater than 95.0% as determined by RP-HPLC and SDS-PAGE.</td>
</tr>
<tr>
<td><strong>Expression system</strong></td>
<td>Pichia pastoris</td>
</tr>
<tr>
<td><strong>Protein length</strong></td>
<td>Full length protein</td>
</tr>
<tr>
<td><strong>Animal free</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Nature</strong></td>
<td>Recombinant</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Leech</td>
</tr>
<tr>
<td><strong>Sequence</strong></td>
<td>VVYTDCTESGQNLCLEGSNVCGQGNKCIILGSDGEKNQ CVTGEKTPQHS HNDGFEEIPEYLQ</td>
</tr>
<tr>
<td><strong>Amino acids</strong></td>
<td>1 to 65</td>
</tr>
<tr>
<td><strong>Additional sequence information</strong></td>
<td>Identical to natural Hirudin except for the substitution of leucine for isoleucine at the N-terminal end of the molecule and the absence of a sulfate group on the tyrosine at position 63.</td>
</tr>
</tbody>
</table>

**Specifications**

Our Abpromise guarantee covers the use of ab73660 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications**

Functional Studies  
SDS-PAGE

**Form**

Lyophilized

**Preparation and Storage**

**Stability and Storage**

Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.00

Constituents: PBS, 2% Mannitol

This product is an active protein and may elicit a biological response in vivo, handle with caution.

**Reconstitution**

Reconstitute in sterile 18MO-cm H₂O not less than 100µg/ml, which can then be further diluted to
other aqueous solutions. Upon reconstitution ab73660 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

General Info

Relevance

Hirudin is a highly effective and very specific anticoagulant which specifically inhibits formation of fibrin and activation of factors V, VIII and XIII by forming irreversible, noncovalent 1:1 complexes with α-thrombin. Hirudin is a 65 amino acid polypeptide, 7 kDa protein naturally originating from the medical leech Hirudo medicinalis. It is the most potent thrombin inhibitor known to date.

Cellular localization

Secreted

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

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