Thrombin cleavage kit ab207000

Overview

**Product name**
Thrombin cleavage kit

**Product overview**
Abcam’s Thrombin cleavage kit (ab207000) efficiently removes tags from recombinant fusion proteins containing an accessible thrombin cleavage sequence.

Thrombin is a valuable biochemical tool due to its high proteolytic specificity. A thrombin cleavage site (e.g., Leu-Val-Pro-Arg-Ile-Gly-Ser; where Ile denotes the cleavage site) is widely incorporated within the linker region of fusion or affinity tagged recombinant proteins. After successful cleavage with thrombin, affinity tags or fused proteins can be separated from the target protein. Abcam’s Thrombin cleavage kit provides an easy approach to test and optimize cleavage conditions of a target fusion or affinity-tagged protein containing a thrombin-specific cleavage site. The kit contains active thrombin enzyme sufficient to cleave up to 5 mg of the target protein. A 6x His-tagged protein containing the thrombin cleavage site is included as a cleavage control protein. Following cleavage of the target protein, thrombin can be removed by passing the reaction mix through a Heparin Sepharose® column.

**Tested applications**
*Suitable for:* Purification

Properties

**Storage instructions**
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>500 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleavage Control Protein (Lyophilized)</td>
<td>1 vial</td>
</tr>
<tr>
<td>Thrombin Cleavage Buffer</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>Thrombin Dilution Buffer</td>
<td>1 x 1ml</td>
</tr>
<tr>
<td>Thrombin Enzyme</td>
<td>1 x 500 units</td>
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</table>

Applications

Our Abpromise guarantee covers the use of ab207000 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
SDS-PAGE analysis of thrombin cleavage using different amount of thrombin and ab207000: Cleavage of 10 μg of 6x His-tagged Cleavage Control Protein with different amounts (0.01-1 U/μL) of thrombin at room temperature for 18 hours.

SDS-PAGE analysis of thrombin cleavage at different time points using ab207000: Cleavage of 10 μg of 6x His-tagged Cleavage Control Protein.

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

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