



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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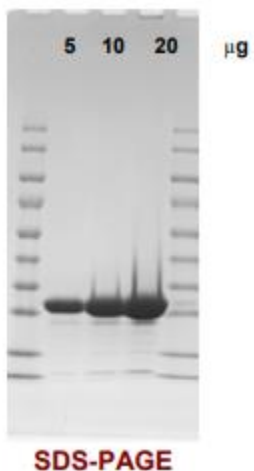
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## Product Information

|                              |                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>          | Active recombinant SENP2 (SUMO Protease 2). This construct contains an N-terminal His-tag. This protein was affinity purified.                                                                                                                                                                                                                                                                     |
| <b>Background:</b>           | SUMO Protease 2, a highly active and robust recombinant protease, cleaves hSUMO3 from recombinant fusion proteins. Unlike thrombin, EK, or TEV protease, which recognize short, linear sequences, SUMO Protease 2 recognizes the tertiary structure of hSUMO3. As a result, SUMO Protease 2 will not cleave within the fused protein of interest.                                                  |
| <b>Species:</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tag:</b>                  | His                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration:</b>        | 10 U/μl                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Expression System:</b>    | <i>E. coli</i>                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity:</b>               | ≥90% by SDS-PAGE and RP-HPLC                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Format:</b>               | Aqueous buffer solution.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Formulated In:</b>        | 50 mM HEPES, pH 7.5, 150 mM NaCl, 10% glycerol                                                                                                                                                                                                                                                                                                                                                     |
| <b>MW:</b>                   | 28 kDa                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Stability:</b>            | At least 6 months at -80°C.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage:</b>              | -80°C                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Instructions for Use:</b> | Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.                                                                                                                                                                                                 |
| <b>Specific Activity</b>     | > 1 x 10 <sup>5</sup> U/mg, 1 U will cleave >90 μg of hSUMO3-GFP in 1 hr at 37°C                                                                                                                                                                                                                                                                                                                   |
| <b>Assay Conditions:</b>     | SUMO3-containing protein should be purified and dialyzed with PBS, pH 7.4 or 20 mM Tris Buffer and 150 mM NaCl pH 8. Incubation with Senp2 is then performed by adding 1 unit of Senp2 per each 10-100 μg of SUMO-3-containing protein and adding DTT to reach a 2 mM final concentration. Reactions can be incubated at 30°C for 1 hour with gentle agitation (no vortexing) or overnight at 4°C. |
| <b>Applications:</b>         | Useful for removal of hSUMO3 from recombinant proteins over a range of temperature (30°C optimal) and ionic strength, and from pH 5.5 to 9.5.                                                                                                                                                                                                                                                      |

## Quality Control Data

### SDS-PAGE Coomassie Staining



### RP-HPLC

