



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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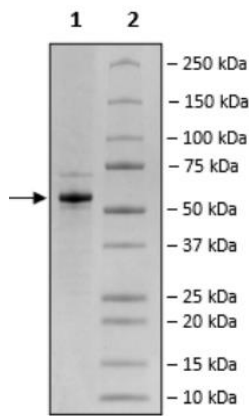


## Product Information

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>          | Recombinant full length human USP22 (ubiquitin-specific peptidase 22), amino acids 2-525(end). This construct has an N-terminal His-tag (6xHis) and a C-terminal FLAG-tag. This protein was affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Background:</b>           | USP22 (ubiquitin-specific peptidase 22) is a member of the USP DUBs (deubiquitinases). Deubiquitinases play a role in several cellular processes including transcriptional regulation, cell cycle progression or innate immunity. In humans, USP22 is ubiquitously expressed. Overexpression of this protein has been linked to cancer, diabetes, neurological disorders and male infertility. In the context of cancer, USP22 overexpression levels correlate with patient prognosis. In prostate cancer, USP22 promotes the activity of AR (androgen receptor). In addition, as part of the transcription regulatory histone acetylation (HAT) complex SAGA (Spt-Ada-Gcn5 acetyl transferase complex) it catalyzes the deubiquitination of both histones H2A and H2B. It can also induce cell cycle progression by stabilizing cyclin B and TRF1 (telomeric repeat binding factor 1) and inhibit apoptosis. In view of its role as a tumor promoter, targeting USP22 has become an attractive cancer therapeutic option, with the discovery of highly selective USP22 small molecule inhibitors being one of the main challenges. |
| <b>Species:</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Construct:</b>            | USP22 (His-2-525(end)-FLAG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration:</b>        | 0.54 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Expression System:</b>    | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity:</b>               | 89%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Format:</b>               | Aqueous buffer solution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formulated In:</b>        | 40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 100 µg/ml FLAG peptide, and 20% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MW:</b>                   | 62 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Genbank Accession:</b>    | NM_015276.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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>Assay Conditions:</b>     | This protein was tested following USP22 Inhibitor Screening Assay Kit (#82742), with different amounts of protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications:</b>         | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



USP22 Activity

