



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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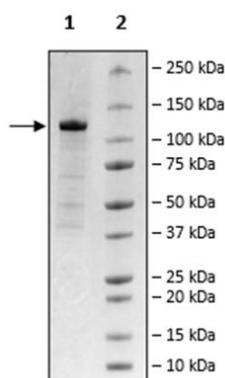


## Product Information

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>          | Recombinant human USP15 (ubiquitin carboxyl-terminal hydrolase 15), full length encompassing amino acids 2-981(end). This construct contains an N-terminal His-tag (6xHis) and a C-terminal FLAG-tag. The recombinant protein was affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Background:</b>           | USP15 is a deubiquitinase that associates with the COP9 (constitutive photomorphogenesis 9) signalosome (CSN) complex. It regulates the NF-kappaB pathway by deubiquitinating IkkappaBalpha2. USP15 acts as a key regulator of TGF-beta receptor signaling pathway and is thought to promote deubiquitination of monoubiquitinated R-SMADs (SMAD1, SMAD2 and/or SMAD3), thereby alleviating inhibition of R-SMADs and promoting activation of TGF-beta target genes. UPS15 is linked to immune and inflammatory roles, where it can regulate the transcription of pro-inflammatory cytokines and type I interferons. It also plays a role in the TEM (tumor microenvironment). More research will shed light on the role of USP15 as a cancer therapy target. |
| <b>Species:</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Construct:</b>            | USP15 (His-2-981(end)-FLAG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Concentration:</b>        | 0.5 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Expression System:</b>    | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity:</b>               | 81%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <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>                   | 115 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Genbank Accession:</b>    | NM_001252078.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <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>     | Assay done according to USP15 Inhibitor Screening Assay Kit (BPS Bioscience #82940) with USP15, His-tag, FLAG-tag Recombinant titrated at various amounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Applications:</b>         | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Quality Control Data

4-20% SDS-PAGE Coomassie Staining



USP15 Activity

