



# 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

### SZABO-SCANDIC HandelsgmbH

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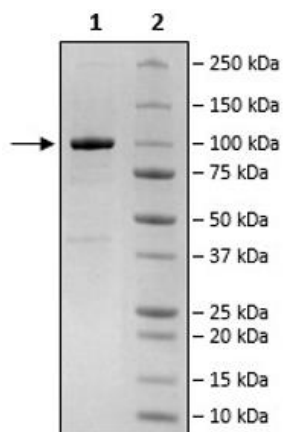
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Product Information

<b>Description:</b>	Recombinant human USP13 (ubiquitin carboxyl-terminal hydrolase 13), encompassing amino acids 2-863(end). This construct contains an N-terminal His-tag (6xHis) and a C-terminal FLAG-tag. This protein was affinity purified.
<b>Background:</b>	USP13 (ubiquitin carboxyl-terminal hydrolase 13), also known as isopeptidase T 3 (ISOT-3) is a DUB (deubiquitination) enzyme. It participates in multiple crucial cellular processes, such as autophagy, DNA damage response, ERAD (endoplasmic reticulum-associated degradation) by deubiquitinating proteins involved in those functions. It also plays roles in diseases such as cancer and neurodegeneration. It can play both a suppressor and activator role in tumorigenesis. For instance, low levels of USP13 correlate with low levels of PTEN (phosphatase and tensin homolog), as UPS13 stabilizes the protein. A deeper understanding of all its cellular roles and how to best target its function in a specific context may prove beneficial in cancer therapy.
<b>Species:</b>	Human
<b>Construct:</b>	USP13 (His-2-863(end)-FLAG)
<b>Concentration:</b>	0.38 mg/ml
<b>Expression System:</b>	HEK293
<b>Purity:</b>	≥90%
<b>Format:</b>	Aqueous buffer solution.
<b>Formulated In:</b>	45 mM Tris-HCl, pH 8.0, 300 mM NaCl, 2.48 mM KCl, 0.045% Tween-20, 10% glycerol, 100 µg/ml FLAG peptide
<b>MW:</b>	100 kDa
<b>Genbank Accession:</b>	NM_003940.3
<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>	5 pmol/min/µg
<b>Assay Conditions:</b>	USP13 was incubated in 50 mM Tris-HCl, 0.5 mM EDTA, 0.05% Tween 20, 1 mM DTT with 500 nM Ubiquitin-AMC. The reaction was incubated at room temperature for 30 minutes. Fluorescence intensity was measured at $\lambda_{exc}/\lambda_{em}$ of 360nm/460nm using a Tecan M1000 plate reader.
<b>Applications:</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

## Quality Control Data

### 4-20% SDS-PAGE Coomassie Staining



### USP13 Activity

