

Datasheet for ABIN7555473

**SENP7 Protein (AA 1-1050) (His tag)**[Go to Product page](#)

## Overview

|                               |                                              |
|-------------------------------|----------------------------------------------|
| Quantity:                     | 1 mg                                         |
| Target:                       | SENP7                                        |
| Protein Characteristics:      | AA 1-1050                                    |
| Origin:                       | Human                                        |
| Source:                       | HEK-293 Cells                                |
| Protein Type:                 | Recombinant                                  |
| Purification tag / Conjugate: | This SENP7 protein is labelled with His tag. |
| Application:                  | SDS-PAGE (SDS), Western Blotting (WB)        |

## Product Details

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:  | Custom-made recombinat SENP7 Protein expressed in mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sequence: | MDKRKLGRRP SSSEITEGK RKKSSSDLSE IRKMLNAKPE DVHVQSPLSK FRSSERWTLP<br>LQWERSLRNK VISLDHKNKK HIRGCPVTSK SSPERQLKVM LTNVLWTDLG RKFRKTLPRN<br>DANLCDANKV QSDSLPSTSV DSLETCQKLE PLRQSLNLSE RIPRVILTNV LGTELGRKYI<br>RTPPVTEGSL SDTDNLQSEQ LSSSSDGSLE SYQNLNPHKS CYLSERGSQR SKTVDDNSAK<br>QTAHNKEKRR KDDGISLLIS DTQPEDLNSG SRGCDHLEQE SRNKDVKYSD SKVELTLISR<br>KTKRRLRNNL PDSQYCTSLD KSTEQTKKQE DDSTISTEFE KPSENYHQDP KLPEEITTKP<br>TKSDFTKLSS LNSQELTSLN ATKASAGST TETVENSNSI DIVGISSLVE KDENELNTIE<br>KPILRGHNEG NQSLISAEPV VVSSDEEGPV EHKSSSEILKL QSKQDRETTN ENESTSESAL<br>LELPLITCES VQMSELCPY NPVMENISSI MPSNEMDLQL DFIFTSVYIG KIKGASKGCV<br>TITKKYIKIP FQVSLNEISL LVDTTHLKRF GLWWSKDDNH SKRSHAILFF WVSSDYLQEI<br>QTQLEHSVLS QQSKSSEFIF LELHNPVSQR EELKLKDIMT EISIISGELE LSYPLSWVQA |

FPLFQNLSSK ESSFIHYCV STCSFPAGVA VAEEMKLKSV SQPSNTDAK PTYTFLQKQS  
SGCYSLSITS NPDEEWREVR HTGLVQKLIV YPPPPTKGGL GVTNEDLECL EEGEFLNDVI  
IDFYLYLIL EKASDELVER SHIFSSFFYK CLTRKENNLT EDNPNLMAQ RRHKRVRTWT  
RHINIFNKDY IFVPVNESSH WYLAVICFPW LEEAVYEDFP QTVSQSQQAQ QSQNDNKTID  
NDLRTTSTLS LSAEDSQSTE SNMSVPKKMC KRPCILILDS LKAASVQNTV QNLREYLEVE  
WEVKLKTHRQ FSKTNMVDLC PKVPKQDNSS DCGVYLLQYV ESFFKDPIVN FELPIHLEKW  
FPRHVIKTKR EDIRELILKL HLQQQKGSSS **Sequence without tag. The proposed Purification-  
Tag is based on experiences with the expression system, a different complexity of the  
protein could make another tag necessary. In case you have a special request, please  
contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

SEN7

Alternative Name:

SEN7 ([SEN7 Products](#))

Background:

Sentrin-specific protease 7 (EC 3.4.22.-) (SUMO-1-specific protease 2) (Sentrin/SUMO-specific protease SEN7),FUNCTION: Protease that acts as a positive regulator of the cGAS-STING pathway by catalyzing desumoylation of CGAS. Desumoylation of CGAS promotes DNA-binding

## Target Details

activity of CGAS, subsequent oligomerization and activation (By similarity). Deconjugates SUMO2 and SUMO3 from targeted proteins, but not SUMO1 (PubMed:18799455). Catalyzes the deconjugation of poly-SUMO2 and poly-SUMO3 chains (PubMed:18799455). Has very low efficiency in processing full-length SUMO proteins to their mature forms (PubMed:18799455). {ECO:0000250|UniProtKB:Q8BUH8, ECO:0000269|PubMed:18799455}.

Molecular Weight: 119.7 kDa

UniProt: [Q9BQF6](#)

## Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months