

Datasheet for ABIN7555633  
**SPG7 Protein (AA 1-795) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SPG7
Protein Characteristics:	AA 1-795
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPG7 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SPG7 Protein expressed in mammalian cells.
Sequence:	MAVLLLLLRA LRRGPGPGPR PLWGPGPAWS PGFPARPGRG RPYMASRPPG DLAEAGGRAL QSLQLRLLTP TFEINGLLL KQHLVQNPVR LWQLLGGTFY FNTSRLKQKN KEKDKSKGKA PEEDEEERRR RERDDQMYRE RLRTLLVIAV VMSLLNALST SGGISISWDF VHEMLAKGEV QRVQVVPESD VVEVYLHPGA VVFGPRPAL MYRMQVANID KFEEKLRAAE DELNIEAKDR IPVSYKRTGF FGNALYSVGM TAVGLAILWY VFRLAGMTGR EGGFSAFNQL KMARFTIVDG KMGKGVSKFD VAGMHEAKLE VREFVDYLSK PERFLQLGAK VPKGALLGP PGCGKTLAK AVATEAQVPF LAMAGPEFVE VIGGLGAARV RSLFKEARAR APCIVYIDEI DAVGKKRSTT MSGFSNTEEE QTLNQLLVEM DGMGTTDHVI VLASTNRADI LDGALMRPGR LDRHVFIDL TLQERREIFE QHLKSLKLTQ SSTFYSQRLA ELTPGFSGAD IANICNEAAL HAAREGHTSV HTLNFYAVE RVLGTAKK KILSKEEQV VAFHESGHAL VGWMLEHTEA VMKVSITPRT NAALGFAQML PRDQHLFTKE QLFERMCMAL GGRASEALSF NEVTSGAQDD LRVVTRIAYS MVKQFGMAPG IGPISFPEAQ EGLMGIGRRP FSQGLQMMMD HEARLLVAKA YRHTEKVLQD

## Product Details

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NLDKLQALAN ALLEKEVINY EDIEALIGPP PHGPKKMIAP QRWIDAQREK QDLGEEETEE

TQQPPLGGEE PTWPK **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.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** SPG7

**Alternative Name:** SPG7 ([SPG7 Products](#))

**Background:** Paraplegin (EC 3.4.24.-) (Cell matrix adhesion regulator) (Spastic paraplegia 7 protein),FUNCTION: ATP-dependent zinc metalloprotease. Plays a role in the formation and regulation of the mitochondrial permeability transition pore (mPTP) and its proteolytic activity is dispensable for this function (PubMed:26387735). {ECO:0000269|PubMed:26387735, ECO:0000305}.

**Molecular Weight:** 88.2 kDa

## Target Details

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UniProt: [Q9UQ90](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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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