

Datasheet for ABIN7555586

SMURF1 Protein (AA 1-757) (His tag)



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Overview

Quantity:	1 mg
Target:	SMURF1
Protein Characteristics:	AA 1-757
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMURF1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SMURF1 Protein expressed in mammalian cells.
Sequence:	<p>MSNPGTRRNG SSIKIRLTVL CAKNLAKKDF FRLPDPFAKI VVDGSGQCHS TDTVKNLTDP</p> <p>KWNQHYDLYV GKTDSTITSV WNHKKIHKKQ GAGFLGCVRL LSNAISRLKD TGYQRLDLCK</p> <p>LNPSTDAVR GQIVVSLQTR DRIGTGGSV DCRGLLENeg TVYEDSGPGR PLSCFMEEPA</p> <p>PYTDSTGAAA GGGNCRFVES PSQDQRLQAQ RLRNPDVRGS LQTPQNRPHG HQSPELPEGY</p> <p>EQRTTVQGQV YFLHTQTGVS TWHDPRI PSP SGTIPGGDAA FLYEFLLQGH TSEPRDLNSV</p> <p>NCDELGPLPP GWEVRSTVSG RIYFVDHNNR TTQFTDPR LH HIMNHQCQLK EPSQPLPLPS</p> <p>EGSLEDEELP AQRYERDLVQ KLKVL RHELS LQQPQAGHCR IEVSREEIFE ESYRQIMKMR</p> <p>PKDLKKRLMV KFRGEEGLDY GGVAREWLYL LCHEMLNPYY GLFQYSTDNI YMLQINPDSS</p> <p>INPDHLSYFH FVGRIMGLAV FHGHYINGGF TVPFYKQLLG KPIQLSDLES VDPELHKSLV</p> <p>WILENDITPV LDHTFCVEHN AFGRILQHEL KPNGRNPVPT EENKKEYVRL YVNWRFMRGI</p> <p>EAQFLALQKG FNELIPQHLL KPFDQKELEL IIGGLDKIDL NDWKSNTRLK HCVADSNIVR</p> <p>WFWQAVETFD EERRARLLQF VTGSTRVPLQ GFKALQGSGT AAGPRLFTIH LIDANTDNLP</p>

Product Details

KAHTCFNRID IPPYESYEKL YEKLLTAVEE TCGFAVE **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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SMURF1
Alternative Name:	SMURF1 (SMURF1 Products)
Background:	E3 ubiquitin-protein ligase SMURF1 (hSMURF1) (EC 2.3.2.26) (HECT-type E3 ubiquitin transferase SMURF1) (SMAD ubiquitination regulatory factor 1) (SMAD-specific E3 ubiquitin-protein ligase 1),FUNCTION: E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway. Mediates ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway. Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members and RHOA. Promotes ubiquitination and subsequent proteasomal degradation of MAVS (PubMed:23087404). Acts as an antagonist of

Target Details

	TGF-beta signaling by ubiquitinating TGFBR1 and targeting it for degradation (PubMed:21791611). Plays a role in dendrite formation by melanocytes (PubMed:23999003). {ECO:0000269 PubMed:10458166, ECO:0000269 PubMed:19937093, ECO:0000269 PubMed:21402695, ECO:0000269 PubMed:21791611, ECO:0000269 PubMed:23087404, ECO:0000269 PubMed:23999003}.
Molecular Weight:	86.1 kDa
UniProt:	Q9HCE7
Pathways:	Regulation of Cell Size

Application Details

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

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