Datasheet for ABIN7555486

SLFN11 Protein (AA 1-901) (His tag)

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Overview

Quantity:	1 mg
Target:	SLFN11
Protein Characteristics:	AA 1-901
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLFN11 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLFN11 Protein expressed in mammalian cells.
Sequence:	MEANQCPLVV EPSYPDLVIN VGEVTLGEEN RKKLQKIQRD QEKERVMRAA CALLNSGGGV IRMAKKVEHP VEMGLDLEQS LRELIQSSDL QAFFETKQQG RCFYIFVKSW SSGPFPEDRS VKPRLCSLSS SLYRRSETSV RSMDSREAFC FLKTKRKPKI LEEGPFHKIH KGVYQELPNS DPADPNSDPA DLIFQKDYLE YGEILPFPES QLVEFKQFST KHFQEYVKRT IPEYVPAFAN TGGGYLFIGV DDKSREVLGC AKENVDPDSL RRKIEQAIYK LPCVHFCQPQ RPITFTLKIV NVLKRGELYG YACMIRVNPF CCAVFSEAPN SWIVEDKYVC SLTTEKWVGM MTDTDPDLLQ LSEDFECQLS LSSGPPLSRP VYSKKGLEHK KELQQLLFSV PPGYLRYTPE SLWRDLISEH RGLEELINKQ MQPFFRGILI FSRSWAVDLN LQEKPGVICD ALLIAQNSTP ILYTILREQD AEGQDYCTRT AFTLKQKLVN MGGYTGKVCV RAKVLCLSPE SSAEALEAAV SPMDYPASYS LAGTQHMEAL LQSLVIVLLG FRSLLSDQLG CEVLNLLTAQ QYEIFSRSLR KNRELFVHGL PGSGKTIMAM KIMEKIRNVF HCEAHRILYV CENQPLRNFI SDRNICRAET RKTFLRENFE HIQHIVIDEA QNFRTEDGDW YGKAKSITRR AKGGPGILWI FLDYFQTSHL DCSGLPPLSD

Product Details

	QYPREELTRI VRNADPIAKY LQKEMQVIRS NPSFNIPTGC LEVFPEAEWS QGVQGTLRIK KYLTVEQIMT CVADTCRRFF DRGYSPKDVA VLVSTAKEVE HYKYELLKAM RKKRVVQLSD ACDMLGDHIV LDSVRRFSGL ERSIVFGIHP RTADPAILPN VLICLASRAK QHLYIFPWGG H **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

Target:	SLFN11
Alternative Name:	SLFN11 (SLFN11 Products)
Background:	Schlafen family member 11 (EC 3.6.-.-),FUNCTION: Inhibitor of DNA replication that promotes cell death in response to DNA damage (PubMed:22927417, PubMed:26658330, PubMed:29395061). Acts as a guardian of the genome by killing cells with defective replication (PubMed:29395061). Persistently blocks stressed replication forks by opening chromatin across replication initiation sites at stressed replication forks, possibly leading to unwind DNA

Target Details

	ahead of the MCM helicase and block fork progression, ultimately leading to cell death (PubMed:29395061). Acts independently of ATR (PubMed:29395061). Also acts as an interferon (IFN)-induced antiviral protein which acts as an inhibitor of retrovirus protein synthesis (PubMed:23000900). Specifically abrogates the production of retroviruses such as human immunodeficiency virus 1 (HIV-1) by acting as a specific inhibitor of the synthesis of retroviruses encoded proteins in a codon-usage-dependent manner (PubMed:23000900). Binds to tRNAs and exploits the unique viral codon bias towards A/T nucleotides (PubMed:23000900). The exact inhibition mechanism is unclear: may either sequester tRNAs, prevent their maturation via post-transcriptional processing or may accelerate their deacylation (PubMed:23000900). Does not inhibit reverse transcription, integration or production and nuclear export of viral RNA (PubMed:23000900). {ECO:0000269|PubMed:22927417, ECO:0000269|PubMed:23000900, ECO:0000269|PubMed:26658330, ECO:0000269|PubMed:29395061}.
Molecular Weight:	102.8 kDa
UniProt:	Q7Z7L1

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