Datasheet for ABIN7555287

RSAD2 Protein (AA 1-361) (His tag)

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Overview

Quantity:	1 mg
Target:	RSAD2
Protein Characteristics:	AA 1-361
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RSAD2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RSAD2 Protein expressed in mammalian cells.
Sequence:	MWVLTPAAFA GKLLSVFRQP LSSLWRSLVP LFCWLRATFW LLATKRRKQQ LVLRGPDETK EEEEDPPLPT TPTSVNYHFT RQCNYKCGFC FHTAKTSFVL PLEEAKRGLL LLKEAGMEKI NFSGGEPFLQ DRGEYLGKLV RFCKVELRLP SVSIVSNGSL IRERWFQNYG EYLDILAISC DSFDEEVNVL IGRGQGKKNH VENLQKLRRW CRDYRVAFKI NSVINRFNVE EDMTEQIKAL NPVRWKVFQC LLIEGENCGE DALREAERFV IGDEEFERFL ERHKEVSCLV PESNQKMKDS YLILDEYMRF LNCRKGRKDP SKSILDVGVE EAIKFSGFDE KMFLKRGGKY IWSKADLKLD W **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:

Product Details

- 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:	RSAD2
Alternative Name:	RSAD2 (RSAD2 Products)
Background:	S-adenosylmethionine-dependent nucleotide dehydratase RSAD2 (SAND) (EC 4.2.-.-) (Cytomegalovirus-induced gene 5 protein) (Radical S-adenosyl methionine domain-containing protein 2) (Virus inhibitory protein, endoplasmic reticulum-associated, interferon-inducible) (Viperin),FUNCTION: Interferon-inducible antiviral protein which plays a major role in the cell antiviral state induced by type I and type II interferon (PubMed:31812350). Catalyzes the conversion of cytidine triphosphate (CTP) to 3'-deoxy-3',4'-didehydro-CTP (ddhCTP) via a SAM-dependent radical mechanism (PubMed:29925952, PubMed:30872404). In turn, ddhCTP acts as a chain terminator for the RNA-dependent RNA polymerases from multiple viruses and directly inhibits viral replication (PubMed:29925952). Therefore, inhibits a wide range of DNA and RNA viruses, including human cytomegalovirus (HCMV), hepatitis C virus (HCV), west Nile virus (WNV), dengue virus, sindbis virus, influenza A virus, sendai virus, vesicular stomatitis virus (VSV), zika virus, and human immunodeficiency virus (HIV-1) (PubMed:29925952, PubMed:30587778, PubMed:31921110, PubMed:30934824). Promotes also TLR7 and TLR9-dependent production of IFN-beta production in plasmacytoid dendritic cells (pDCs) by

Target Details

	facilitating 'Lys-63'-linked ubiquitination of IRAK1 by TRAF6 (PubMed:30872404). Plays a role in CD4+ T-cells activation and differentiation. Facilitates T-cell receptor (TCR)-mediated GATA3 activation and optimal T-helper 2 (Th2) cytokine production by modulating NFKB1 and JUNB activities. Can inhibit secretion of soluble proteins. {ECO:0000269|PubMed:11752458, ECO:0000269|PubMed:16108059, ECO:0000269|PubMed:16982913, ECO:0000269|PubMed:17686841, ECO:0000269|PubMed:18005719, ECO:0000269|PubMed:19074433, ECO:0000269|PubMed:29925952, ECO:0000269|PubMed:30587778, ECO:0000269|PubMed:30872404, ECO:0000269|PubMed:30934824, ECO:0000269|PubMed:31812350, ECO:0000269|PubMed:31921110}.
Molecular Weight:	42.2 kDa
UniProt:	Q8WXG1
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

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