Datasheet for ABIN7554813

OAS3 Protein (AA 1-1087) (His tag)

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Overview

Quantity:	1 mg
Target:	OAS3
Protein Characteristics:	AA 1-1087
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OAS3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat OAS3 Protein expressed in mammalien cells.
Sequence:	MDLYSTPAAA LDRFVARRLQ PRKEFVEKAR RALGALAAAL RERGGRLGAA APRVLKTVKG GSSGRGTALK GGCDSELVIF LDCFKSYVDQ RARRAEILSE MRASLESWWQ NPVPGLRLTF PEQSVPGALQ FRLTSVDLED WMDVSLVPAF NVLGQAGSGV KPKPQVYSTL LNSGCQGGEH AACFTELRRN FVNIRPAKLK NLILLVKHWY HQVCLQGLWK ETLPPVYALE LLTIFAWEQG CKKDAFSLAE GLRTVLGLIQ QHQHLCVFWT VNYGFEDPAV GQFLQRQLKR PRPVILDPAD PTWDLGNGAA WHWDLLAQEA ASCYDHPCFL RGMGDPVQSW KGPGLPRAGC SGLGHPIQLD PNQKTPENSK SLNAVYPRAG SKPPSCPAPG PTGAASIVPS VPGMALDLSQ IPTKELDRFI QDHLKPSPQF QEQVKKAIDI ILRCLHENCV HKASRVSKGG SFGRGTDLRD GCDVELIIFL NCFTDYKDQG PRRAEILDEM RAQLESWWQD QVPSLSLQFP EQNVPEALQF QLVSTALKSW TDVSLLPAFD AVGQLSSGTK PNPQVYSRLL TSGCQEGEHK ACFAELRRNF MNIRPVKLKN LILLVKHWYR QVAAQNKGKG PAPASLPPAY ALELLTIFAW EQGCRQDCFN MAQGFRTVLG

Product Details

	LVQQHQQLCV YWTVNYSTED PAMRMHLLGQ LRKPRPLVLD PADPTWNVGH GSWELLAQEA AALGMQACFL SRDGTSVQPW DVMPALLYQT PAGDLDKFIS EFLQPNRQFL AQVNKAVDTI CSFLKENCFR NSPIKVIKVV KGGSSAKGTA LRGRSDADLV VFLSCFSQFT EQGNKRAEII SEIRAQLEAC QQERQFEVKF EVSKWENPRV LSFSLTSQTM LDQSVDFDVL PAFDALGQLV SGSRPSSQVY VDLIHSYSNA GEYSTCFTEL QRDFIISRPT KLKSLIRLVK HWYQQCTKIS KGRGSLPPQH GLELLTVYAW EQGGKDSQFN MAEGFRTVLE LVTQYRQLCI YWTINYNAKD KTVGDFLKQQ LQKPRPIILD PADPTGNLGH NARWDLLAKE AAACTSALCC MGRNGIPIQP WPVKAAV **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 mammalien 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:	OAS3
Alternative Name:	OAS3 (OAS3 Products)
Background:	2'-5'-oligoadenylate synthase 3 ((2-5')oligo(A) synthase 3) (2-5A synthase 3) (EC 2.7.7.84) (p100 OAS) (p100OAS),FUNCTION: Interferon-induced, dsRNA-activated antiviral enzyme which plays a critical role in cellular innate antiviral response. In addition, it may also play a role in other

Target Details

	cellular processes such as apoptosis, cell growth, differentiation and gene regulation. Synthesizes preferentially dimers of 2'-5'-oligoadenylates (2-5A) from ATP which then bind to the inactive monomeric form of ribonuclease L (RNase L) leading to its dimerization and subsequent activation. Activation of RNase L leads to degradation of cellular as well as viral RNA, resulting in the inhibition of protein synthesis, thus terminating viral replication. Can mediate the antiviral effect via the classical RNase L-dependent pathway or an alternative antiviral pathway independent of RNase L. Displays antiviral activity against Chikungunya virus (CHIKV), Dengue virus, Sindbis virus (SINV) and Semliki forest virus (SFV). {ECO:0000269|PubMed:19056102, ECO:0000269|PubMed:19923450, ECO:0000269|PubMed:9880533}.
Molecular Weight:	121.2 kDa
UniProt:	Q9Y6K5
Pathways:	Hepatitis C

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