

Datasheet for ABIN7564771

OAS3 Protein (AA 1-1138) (His tag)



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Overview

Quantity:	1 mg
Target:	OAS3
Protein Characteristics:	AA 1-1138
Origin:	Mouse
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 mammalian cells.
Sequence:	<p>MDLFHTPAGA LDKLVAHNLH PAPEFTAAVR GALGSLNITL QQHRARGSQR PRVIRIAKGG</p> <p>AYARGTALRG GTDVELVIFL DCFQSFQDQK TCHSETLGAM RMLLESWG GH PGPGLTFEFS</p> <p>QSKASRILQF RLASADGEHW IDVSLVPAFD VLGQPRSGVK PTPNVYSSLL SSHCQAGEYS</p> <p>ACFTEPRKNF VNTRPAKLKN LILLVKHWYH QVQTRAVRAT LPPSYALELL TIFAWEQGCG</p> <p>KDSFSLAQGL RTVLALIQHS KYLCIFWTEN YGFEDPAVGE FLRRQLKRPR PVILDPADPT</p> <p>WDVNGTAWR WDVLAQEAES SFSQQCFKQA SGVLVQPWEG PGLPRAGILD LGHPYQGP</p> <p>QALDNLKGHL AVQSKERSQK PSNSAPGFPE AATKIPAMPN PSANKTRKIR KKAHPKTVQ</p> <p>EAALDSISSH VRITQSTASS HMPPDRSSIS TAGSRMSPDL SQIPSKDLDC FIQDHLRPS</p> <p>QFQQQVKQAI DAILCCLREK SVYKVLRVSK GGSFGRGTDL RGSCDVELVI FYKTLGDFKG</p> <p>QKPHQAEILR DMQAQLRHWC QNPVPGLSLQ FIEQKPNALQ LQLASTDLSN RVDLSVLP</p> <p>DAVGPLKSGT KPQPQVYSSL LSSGCQAGEH AACFAELRRN FINTCPPKLLK SLMLLVKHWY</p>

RQVVTRYKGG EAAGDAPPPA YALELLTIFA WEQGCGEQKF SLAEGRLTIL RLIQQHQSLC
IYWTVNYSVQ DPAIRAHLIC QLRKARPLVL DPADPTWNVG QGDWKLLAQE AAALGSQVCL
QSGDGLVPP WDVTPALLHQ TLAEDLDKFI SEFLQPNRHF LTQVKRAVDT ICSFLKENC
RNSTIKVLKV VKGGSSAKGT ALQGRSDADL VVFLSCFRQF SEQGSHRAEI ISEIQAHLEA
CQQMHSFDVK FEVSKRKNPR VLSFTLTSQT LLDQSVDFDV LPAFDALGQL RSGSRPDP
YTDLIHSCSN AGEFSTCFTE LQRDFITSRP TKLKSILRLV KYWYQQCNKT IKGKGS
LPPQ HGLELLTVYA WEQGGQNPQF NMAEGFRTVL ELIVQYRQLC VYWTINYSAE
DKTIGDFLKM QLRKPRPVIL DPADPTGNLG HNARWDLLAK EATVYASALC
CVDRDGNPIK PWPVKA

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 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, 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) (2',5'-oligoadenylate synthetase-like 10),FUNCTION: Interferon-induced, dsRNA-activated antiviral

Target Details

enzyme which plays a critical role in cellular innate antiviral response. In addition, it may also play a role in other 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. {ECO:0000269|PubMed:12396720}.

Molecular Weight: 126.3 kDa

UniProt: [Q8VI93](#)

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