Datasheet for ABIN3136762

OAS3 Protein (AA 1-1138) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	OAS3
Protein Characteristics:	AA 1-1138
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This OAS3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MDLFHTPAGA LDKLVAHNLH PAPEFTAAVR GALGSLNITL QQHRARGSQR PRVIRIAKGG AYARGTALRG GTDVELVIFL DCFQSFGDQK TCHSETLGAM RMLLESWGGH PGPGLTFEFS QSKASRILQF RLASADGEHW IDVSLVPAFD VLGQPRSGVK PTPNVYSSLL SSHCQAGEYS ACFTEPRKNF VNTRPAKLKN LILLVKHWYH QVQTRAVRAT LPPSYALELL TIFAWEQGCG KDSFSLAQGL RTVLALIQHS KYLCIFWTEN YGFEDPAVGE FLRRQLKRPR PVILDPADPT WDVGNGTAWR WDVLAQEAES SFSQQCFKQA SGVLVQPWEG PGLPRAGILD LGHPIYQGPN QALEDNKGHL AVQSKERSQK PSNSAPGFPE AATKIPAMPN PSANKTRKIR KKAAHPKTVQ EAALDSISSH VRITQSTASS HMPPDRSSIS TAGSRMSPDL SQIPSKDLDC FIQDHLRPSP QFQQQVKQAI DAILCCLREK SVYKVLRVSK GGSFGRGTDL RGSCDVELVI FYKTLGDFKG QKPHQAEILR DMQAQLRHWC QNPVPGLSLQ FIEQKPNALQ LQLASTDLSN RVDLSVLPAF DAVGPLKSGT KPQPQVYSSL LSSGCQAGEH AACFAELRRN FINTCPPKLK SLMLLVKHWY

RQVVTRYKGG EAAGDAPPPA YALELLTIFA WEQGCGEQKF SLAEGLRTIL RLIQQHQSLC IYWTVNYSVQ DPAIRAHLLC QLRKARPLVL DPADPTWNVG QGDWKLLAQE AAALGSQVCL QSGDGTLVPP WDVTPALLHQ TLAEDLDKFI SEFLQPNRHF LTQVKRAVDT ICSFLKENCF RNSTIKVLKV VKGGSSAKGT ALQGRSDADL VVFLSCFRQF SEQGSHRAEI ISEIQAHLEA CQQMHSFDVK FEVSKRKNPR VLSFTLTSQT LLDQSVDFDV LPAFDALGQL RSGSRPDPRV YTDLIHSCSN AGEFSTCFTE LQRDFITSRP TKLKSLIRLV KYWYQQCNKT IKGKGSLPPQ HGLELLTVYA WEQGGQNPQF NMAEGFRTVL ELIVQYRQLC VYWTINYSAE DKTIGDFLKM QLRKPRPVIL DPADPTGNLG HNARWDLLAK EATVYASALC CVDRDGNPIK PWPVKAAV

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

Product Details

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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 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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

Application Details

	even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months