

Datasheet for ABIN7555691
LARS Protein (AA 1-1176) (His tag)



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Overview

Quantity:	1 mg
Target:	LARS
Protein Characteristics:	AA 1-1176
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LARS protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat LARS1 Protein expressed in mammalian cells.
Sequence:	MAERKGTAKV DFLKKIEKEI QKQWDERVF EVNASNLEKQ TSKGKYFVTF PYPYMNGRLH LGHTFSLSKC EFAVGYQLRK GKCLFPFGL HCTGMPIKAC ADCLKREIEL YGCPPDFPDE EEEEETSVK TEDIIKDKA KGKSKAAAK AGSSKYQWGI MKSLGLSDEE IVKFSEAEHW LDYFPPLAIQ DLKRMGLKVD WRRSFITTDV NPYYSFVRW QFLTLRERNK IKFGKRYTIY SPKDGQPCMD HDRQTGEGVG PQEYTLKLLK VLEPYPSKLS GLKGNIFLV AATLRPETMF GQTNCWVRPD MKYIGFETVN GDIFICTQKA ARNMSYQGFT KDNVVPVVK ELMGEEILGA SLSAPLTSYK VIYVLPMLTI KEDKGTGVVT SVPSDSPDDI AALRDLKKKQ ALRAKYGIRD DMVLPFEPVP VIEIPFGNL SAVTICDELK IQSQNDREKL AEAKEKIYLY GFYEGIMLVD GFKGQKVQDV KKTIQKMKID AGDALIYMEP EKQVMSRSSD ECVVALCDQW YLDYGEENWK KQTSQCLKNL ETFCEETRRN FEATLGWLQE HACSRTYGLG THLPWDEQWL IESLSDSTIY MAFYTVALL QGGNLHGQAE SPLGIRPQQM TKEVWDYVFF KEAPFPKTQI AKEKLDQLKQ

Product Details

EFEFWYPVDL RVSGKDLVPN HLSYYLYNHV AMWPEQSDKW PTAVRANGHL LLNSEKMSKS
TGNFLTQTQA IDKFSADGMR LALADAGDTV EDANFVEAMA DAGILRLYTW VEWVKEMVAN
WDSLRSRGPAS TFNDRVFASE LNAGIIKTDQ NYEKMMFKEA LKTGFFEFQA AKDKYRELAV
EGMHRELVFR FIEVQTLLEA PFCPHLCEHI WTLGKPDISI MNASWPVAGP VNEVLHSSQ
YLMEVTHDLR LRLKNYMMPA KGKKTQKQPL QKPSHCTIYV AKNYPPWQHT TLSVLRKHFE
ANNGKLPDNK VIASELGSMF ELKKYMKKVM PFVAMIKENL EKMGPRIIDL QLEFDEKAVL
MENIVYLTNS LELEHIEVKF ASEAEKIRE DCCPGKPLNV FRIEPGVSVS LVNPQPSNGH
FSTKIEIRQG DNCDSIIRRL MKMNRGIKDL SKVKLMRFDD PLLGPRRVPV LGKEYTEKTP
ISEHAVFNVD LMSKKIHLTE NGIRVDIGDT IYLVH **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:

LARS

Alternative Name:

LARS1 ([LARS Products](#))

Background:

Leucine--tRNA ligase, cytoplasmic (EC 6.1.1.4) (Leucyl-tRNA synthetase) (LeuRS)

Target Details

(cLRS),FUNCTION: Aminoacyl-tRNA synthetase that catalyzes the specific attachment of leucine to its cognate tRNA (tRNA(Leu)) (PubMed:25051973, PubMed:32232361). It performs tRNA aminoacylation in a two-step reaction: Leu is initially activated by ATP to form a leucyl-adenylate (Leu-AMP) intermediate, then the leucyl moiety is transferred to the acceptor 3' end of the tRNA to yield leucyl-tRNA (PubMed:25051973). To improve the fidelity of catalytic reactions, it is also able to hydrolyze misactivated aminoacyl-adenylate intermediates (pre-transfer editing) and mischarged aminoacyl-tRNAs (post-transfer editing) (PubMed:25051973). {ECO:0000269|PubMed:19426743, ECO:0000269|PubMed:25051973, ECO:0000269|PubMed:32232361}.

Molecular Weight: 134.5 kDa

UniProt: [Q9P2J5](#)

Pathways: [EGFR Signaling Pathway](#)

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