

Datasheet for ABIN7564428

IARS Protein (AA 1-1262) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	IARS
Protein Characteristics:	AA 1-1262
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IARS protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat lars1 Protein expressed in mammalien cells.
Sequence:	<p>MVQQVPENIS FPAEEEEKILE FWSKHNCFQE CLKQSKLRPK FTFYDGPPFA TGLPHYGHIL AGTIKDIVTR YAHQSGFHVD RRFQWDCHGL PVEYEIDKTL GIKGPEDVAK MGIAEYNKQC RAIVMRYSAE WKSTVTRLGR WIDFDNDYKT LYPQFMESVW WVKQLYDKG LVYRGVKVMP FSTACGTPLS NFESNQNYKD VQDPSVFVTF PLEEDENTSL VAWTTTPWTL PSNLALCVNP EIQYVKIKDV ARGKLFILTE ARLSALYKQE SDYEILERFP GASLKGKKYK PLFDYFIKCK ENGAFTVLVD HYVKDEEGTG VVHQAPYFGA DDHRVCMDFN IIQKDSVPVC PVDASGCFTE EVTHFVGQYV KDADKNIIRM LKEQGRLAA GTFTHSYPFC WRSDTPLIYK SVPSWFVRVE PMVDQLLKN DLICYWVPEFV REKRFGNWLK EARDWAISRN RYWGTPILW VSEDL EEVVC IGSVAELEEL SGTKISDLHR ESIDHLTIPS RCGKAPLRRV SEVFDCWFES GSMPYAQVHY PFESKREFED AFPADFIAEG IDQTRGWFYT LLVLATALFG QPPFKNVIVN GLILASDGQK MSKRKKNYPD PVSII DKYGA DALRLYLINS PVR AENLRF KEEGVRDVLK DVLLPWYNAY</p>

RFFIQNVFRL HKEEEVKFLY NEHTVRESPN ITDRWVLSFM QSLLGFFETE MAAYRLYTVV
PRLVKFVDIL TNWYVRMNRR RLKGESGVED CVMALETLS VLLSLCRLMA PYTPFLTELM
YQNLKLLIDP ASLRDKDTLS IHYMLPRVR EELIDKKTEN AVSRMQSVIE LGRVIRDRKT
IPIKYPLKEI VVIHQDPEAL EDIRSLEKYI IEELNVRKVT LSTDKNKYGI RLRAEPDHMV
LGKRLKGAFK AVMMAIKRLS NEELERFQKS GSIVVEGHEL HEEDIRLMYT FDQATGGTAQ
FEAHSDAQUAL VLLDVTPDQS MVDEGMAREV INRIQKLRKK CNLVPTDEIT VYYNAKSEGR
YLNNVIESHT DFIFATIKAP LKPYPVPTSD NILIQEQTQL KGSELEITLT KGSCVPGPAC
AYVNLNICAN GTEQGGVLLL ENPKGDNQLN LVKLKTVVTS VFGVKNAKLS VFHGETEIQN
QTDLLSLSGR TLCVTAGASP SPISSPSTLL CQYLNQLLN AEPQECLTGT VGTLLLENPL
GQNGLTHQGL VHEAAKVFG LRSRRLRLFLN ETQTQEITED IPMKTLNMKT VYVSVLPPTA DG

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	IARS
Alternative Name:	lars1 (IARS Products)

Target Details

Background: Isoleucine--tRNA ligase, cytoplasmic (EC 6.1.1.5) (Isoleucyl-tRNA synthetase) (IRS) (IleRS),FUNCTION: Catalyzes the specific attachment of an amino acid to its cognate tRNA in a 2 step reaction: the amino acid (AA) is first activated by ATP to form AA-AMP and then transferred to the acceptor end of the tRNA. {ECO:0000269|PubMed:12060739}.

Molecular Weight: 144.3 kDa

UniProt: [Q8BU30](#)

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