

Datasheet for ABIN7555674

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

## Overview

Quantity:	1 mg
Target:	IARS
Protein Characteristics:	AA 1-1262
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IARS protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant IARS1 Protein expressed in mammalian cells.
Sequence:	MLQQVPENIN FPAEEEEKILE FWTEFNCFQE CLKQSKHKPK FTFYDGPPFA TGLPHYGHIL AGTIKDIVTR YAHQSGFHVD RRFQWDCHGL PVEYEIDKTL GIRPEDVAK MGITEYNNQC RAIVMRYSAE WKSTVSRLGR WIDFDNDYKT LYPQFMESVW WVFKQLYDKG LVYRGVKVMP FSTACNTPLS NFESHQNYKD VQDPSVFVTF PLEEDETVSL VAWTTTPWTL PSNLAVCVNP EMQYVKIKDV ARGRLILME ARLSALYKLE SDYEILERFP GAYLKGKKYR PLFDYFLKCK ENGAFITLVLD NYVKEEEGTG VVHQAPYFGA EDYRVCMDFN IIRKDSL PVC PVDASGCFTT EVTDFAGQYV KDADKSIIRT LKEQGRLLVA TTFTHSYPFC WRSDTPLIYK AVPSWFVRVE NMVDQLLRNN DLCYWVPELV REKRFGNWLK DARDWTISR NRYWGTPILW VSDDFEEVVC IGSVAEELEL SGAKISDLHR ESVDHLTIPS RCGKGS LHRI SEVFDCWFES GSMPYAQVHY PFENKREFED AFPADFIAEG IDQTRGW FYT LLVLATALFG QPPFKNVIVN GLVLASDGQK MSKRKKNYPD PVSIIQKYGA DALRLYLINS PVVRAENLRF KEEGVRDVLK DVLLPWYNAY RFLIQNVLR LQKEEEIEFLY NENTVRESPN ITDRWILSFM QSLIGFFETE MAAYRLYT VV

PRLVKFVDIL TNWYVRMNRRLKGENGMED CVMLETLFS VLLSLCRLMA PYTPFLTELM  
YQNLKVLIDP VSVQDKDTLS IHYMLPRVR EELIDKKTES AVSQMQSVIE LGRVIRDRKT  
IPIKYPLKEI VVIHQDPEAL KDIKSLEKYI IEELNVRKVT LSTDKNKYGI RLRAEPDHMV  
LGKRLKGAFK AVMTSIKQLS SEELEQFQKT GTIVVEGHEL HDEDIRLMYT FDQATGGTAQ  
FEAHSDAQAL VLLDVTPDQS MVDEGMAREV INRIQKLRRK CNLVPTDEIT VYYKAKSEGT  
YLNVSIESHT EFITTTIKAP LKPYPVSPSD KVLIQEKTQL KGSELEITLT RGSSLPGPAC  
AYVNLNICAN GSEQGGVLLL ENPKGDNRLD LLKLKSVVTS IFGVKNTELA VFHDETEIQN  
QTDLLSLSGK TLCVTAGSAP SLINSSSTLL CQYINLQLLN AKPQECLMGT VGTLLLENPL  
GQNGLTHQGL LYEAAKVFG LRSRKLKFLN ETQTQEITED IPVKTLMNKT VYVSVLPPTA DF

**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.**

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <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>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	IARS
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## Target Details

Alternative Name:	IARS1 ( <a href="#">IARS Products</a> )
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:8052601}.
Molecular Weight:	144.5 kDa
UniProt:	<a href="#">P41252</a>

## Application Details

Application Notes:	We expect the protein to work for functional studies. 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