antibodies

## Datasheet for ABIN3134924 AARS2 Protein (AA 24-980) (His tag)

Image



## Overview

Quantity:	1 mg
Target:	AARS2
Protein Characteristics:	AA 24-980
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AARS2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	PFSTEPGPPH GAAVRDAFLS FFRDRHGHRL VPSATVRPRG DPSLLFVNAG MNQFKPIFLG
	TVDPRSEMAG FRRVVNSQKC VRAGGRHNDL EDVGRDLSHH TFFEMLGNWA FGGEYFKEEA
	CSMAWELLTQ VYGIPEDRLW VSYFSGDSQT GLDPDLETRD IWLSLGVPAS RVLSFGPQEN
	FWEMGDTGPC GPCTEIHYDL AGGVGSPQLV ELWNLVFMQH YREADGSLQL LPQRHVDTGM
	GLERLVAVLQ GKRSTYDTDL FSPLLDAIHQ SCGAPPYSGR VGAADEGRID TAYRVVADHI
	RTLSVCIADG VSPGMSGAPL VLRRILRRAV RYSTEVLQAP PGFLGSLVPV VVETLGSAYP
	ELEKNSVKIA SLVSEDEAAF LASLQRGRRI IDRTVKRLGP SDLFPAEVAW SLSLSGNLGI
	PLDLVELMLE EKGVKLDTAG LEQLAQKEAQ HRAQQAEADQ EDRLCLDVHA LEELHRQGIP
	TTDDSPKYNY TLHPNGDYEF GLCEARVLQL YSETGTAVAS VGAGQRCGLL LDRTNFYAEQ
	GGQASDRGYL VRTGQQDMLF PVAGAQLCGG FILHEAMAPE RLQVGDQVQL YVDKAWRMGC
	MVKHTATHLL SWALRQTLGP TTEQRGSHLN PERLRFDVAT QTLLTTEQLR TVESYVQEVV
	GQDKPVFMEE VPLAHTARIP GLRSLDEVYP DPVRVVSVGV PVAHALGPAS QAAMHTSVEL

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	CCGTHLLSTG AVGDLVIIGE RQLVKGITRL LAITGEQAQQ AREVGQSLSQ EVEAASERLS
	QGSRDLPEAH RLSKDIGRLT EVAESAVIPQ WQRQELQTTL KMLQRRANTA IRKLEKGQAT
	EKSQELLKRH SEGPLIVDTV SAESLSVLVK VVRQLCKQAP SISVLLLSPQ PTGSVLCACQ
	VAQDATPTFT AEAWALAVCS HMGGKAWGSR VVAQGTGHTA DLEAALGTAR AYALSQL
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Aars2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State of the art elegrithm used for pleamid design (Cone synthesis)</li> </ul>
	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 will ensure that you receive a correctly folded 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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> </ol>
	<ol> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Product Details	
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	AARS2
Alternative Name:	Aars2 (AARS2 Products)
Background:	Catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala). Also edits incorrectly charged tRNA(Ala) via its editing domain. {ECO:0000255 HAMAP- Rule:MF_03133}.
Molecular Weight:	105.4 kDa Including tag.
UniProt:	Q14CH7
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

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Handling
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Expiry Date:

Unlimited (if stored properly)

## Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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