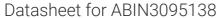
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RPSA/Laminin Receptor Protein (AA 2-295) (His tag)



Image



Overview

Quantity:	1 mg
Target:	RPSA/Laminin Receptor (RPSA)
Protein Characteristics:	AA 2-295
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPSA/Laminin Receptor protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	SGALDVLQMK EEDVLKFLAA GTHLGGTNLD FQMEQYIYKR KSDGIYIINL KRTWEKLLLA

ARAIVAIENP ADVSVISSRN TGQRAVLKFA AATGATPIAG RFTPGTFTNQ IQAAFREPRL LVVTDPRADH QPLTEASYVN LPTIALCNTD SPLRYVDIAI PCNNKGAHSV GLMWWMLARE VLRMRGTISR EHPWEVMPDL YFYRDPEEIE KEEQAAAEKA VTKEEFQGEW TAPAPEFTAT QPEVADWSEG VQVPSVPIQQ FPTEDWSAQP ATEDWSAAPT AQATEWVGAT TDWS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human RPSA Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 bacterial culture:

- 1. 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.
- 2. 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

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 um filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	RPSA/Laminin Receptor (RPSA)
Alternative Name:	RPSA (RPSA Products)
Background:	Required for the assembly and/or stability of the 40S ribosomal subunit. Required for the
	processing of the 20S rRNA-precursor to mature 18S rRNA in a late step of the maturation of

	40S ribosomal subunits. Also functions as a cell surface receptor for laminin. Plays a role in cell
	adhesion to the basement membrane and in the consequent activation of signaling
	transduction pathways. May play a role in cell fate determination and tissue morphogenesis.
	Acts as a PPP1R16B-dependent substrate of PPP1CA. {EC0:0000255 HAMAP-Rule:MF_03016,
	ECO:0000269 PubMed:16263087, ECO:0000269 PubMed:6300843}., (Microbial infection) Acts
	as a receptor for the adeno-associated viruses 2,3,8 and 9, dengue virus, Sindbis virus and
	Venezuelan equine encephalitis virus (PubMed:1385835, PubMed:15507651,
	PubMed:16973587). Also acts as a receptor for pathogenic prion protein and bacteria
	(PubMed:9396609, PubMed:11689427, PubMed:15516338). {ECO:0000269 PubMed:11689427,
	ECO:0000269 PubMed:1385835, ECO:0000269 PubMed:15507651,
	ECO:0000269 PubMed:15516338, ECO:0000269 PubMed:16973587,
	ECO:0000269 PubMed:9396609}.
Molecular Weight:	33.7 kDa Including tag.
UniProt:	P08865
Pathways:	Ribonucleoprotein Complex Subunit Organization, Ribosome Assembly
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:	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.

Expiry Date:

Unlimited (if stored properly)

Images



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