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Datasheet for ABIN3136140 LRRC8D Protein (AA 1-859) (Strep Tag)



Overview

Quantity:	1 mg
Target:	LRRC8D
Protein Characteristics:	AA 1-859
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC8D protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MFTLAEVASL NDIQPTYRIL KPWWDVFMDY LAVVMLMVAI FAGTMQLTKD QVVCLPVLPS
	PANSKAHTPP GNADITTEVP RMETATHQDQ NGQTTTNDVA FGTSAVTPDI PLQATHPHAE
	STLPNQEAKK EKRDPTGRKT NLDFQQYVFI NQMCYHLALP WYSKYFPYLA LIHTIILMVS
	SNFWFKYPKT CSKVEHFVSI LGKCFESPWT TKALSETACE DSEENKQRIT GAQTLPKHVS
	TSSDEGSPSA STPMINKTGF KFSAEKPVIE VPSMTILDKK DGEQAKALFE KVRKFRAHVE
	DSDLIYKLYV VQTLIKTAKF IFILCYTANF VNAISFEHVC KPKVEHLTGY EVFECTHNMA
	YMLKKLLISY ISIICVYGFI CLYTLFWLFR IPLKEYSFEK VREESSFSDI PDVKNDFAFL
	LHMVDQYDQL YSKRFGVFLS EVSENKLREI SLNHEWTFEK LRQHVSRNAQ DKQELHLFML
	SGVPDAVFDL TDLDVLKLEL IPEAKIPAKI SQMTNLQELH LCHCPAKVEQ TAFSFLRDHL
	RCLHVKFTDV AEIPAWVYLL KNLRELYLIG NLNSENNKMI GLESLRELRH LKILHVKSNL
	TKVPSNITDV APHLTKLVIH NDGTKLLVLN SLKKMMNVAE LELQNCELER IPHAIFSLSN
	LQELDLKSNN IRTIEEIISF QHLKRLTCLK LWHNKIVAIP PSITHVKNLE SLYFSNNKLE

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3136140 | 05/01/2024 | Copyright antibodies-online. All rights reserved. SLPTAVFSLQ KLRCLDVSYN NISTIPIEIG LLQNLQHLHI TGNKVDILPK QLFKCVKLRT LNLGQNCIAS LPEKISQLTQ LTQLELKGNC LDRLPAQLGQ CRMLKKSGLV VEDQLFDTLP LEVKEALNQD VNVPFANGI

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 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:	\geq 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	LRRC8D
Alternative Name:	Lrrc8d (LRRC8D Products)
Background:	Volume-regulated anion channel subunit LRRC8D (Leucine-rich repeat-containing protein 5)
	(Leucine-rich repeat-containing protein 8D),FUNCTION: Non-essential component of the
	volume-regulated anion channel (VRAC, also named VSOAC channel), an anion channel
	required to maintain a constant cell volume in response to extracellular or intracellular osmotic
	changes (PubMed:29773801). The VRAC channel conducts iodide better than chloride and can
	also conduct organic osmolytes like taurine (By similarity). Plays a redundant role in the efflux
	of amino acids, such as aspartate, in response to osmotic stress family member (LRRC8B,
	LRRC8C, LRRC8D or LRRC8E), channel characteristics depend on the precise subunit
	composition (By similarity). Also acts as a regulator of glucose-sensing in pancreatic beta cells:
	VRAC currents, generated in response to hypotonicity- or glucose-induced beta cell swelling,
	depolarize cells, thereby causing electrical excitation, leading to increase glucose sensitivity and
	insulin secretion (PubMed:29773801). VRAC channels containing LRRC8D inhibit transport of
	immunoreactive cyclic dinucleotide GMP-AMP (2'-3'-cGAMP), an immune messenger produced
	in response to DNA virus in the cytosol (By similarity). {ECO:0000250 UniProtKB:Q7L1W4,
	EC0:0000269 PubMed:29773801}.
Molecular Weight:	98.1 kDa
UniProt:	Q8BGR2

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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.
Comment:	 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expine Data:	Liplimited (if stored properly)

Expiry Date: Unlimited (if stored properly)