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LRRC8C Protein (AA 1-803) (Strep Tag)



Overview

Quantity:	1 mg
Target:	LRRC8C
Protein Characteristics:	AA 1-803
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC8C protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MIPVTEFRQF SEQQPAFRVL KPWWDVFTDY LSVAMLMIGV FGCTLQVMQD KIICLPKRVQ PAQNHSSVPN VSQAVISTTP LPPPKPSPTN PATVEMKGLK TDLDLQQYSF INQMCYERAL HWYAKYFPYL VLIHTLVFML CSNFWFKFPG SSSKIEHFIS ILGKCFDSPW TTRALSEVSG EDSEEKDNRK NNMNRSGTIQ SGPEGNLVRS QSLKSIPEKF VVDKSAAGAL DKKEGEQAKA LFEKVKKFRL HVEEGDILYA MYVRQTVLKV IKFLIIIAYN SALVSKVQFT VDCNVDIQDM TGYKNFSCNH TMAHLFSKLS FCYLCFVSIY GLTCLYTLYW LFYRSLREYS FEYVRQETGI DDIPDVKNDF AFMLHMIDQY DPLYSKRFAV FLSEVSENKL KQLNLNNEWT PDKLRQKLQT NAHNRLELPL IMLSGLPDTV FEITELQSLK LEIIKNVMIP ATIAQLDNLQ ELCLHQCSVK IHSAALSFLK ENLKVLSVKF DDMRELPPWM YGLRNLEELY LVGSLSHDIS KNVTLESLRD LKSLKILSIK SNVSKIPQAV VDVSSHLQKM CVHNDGTKLV MLNNLKKMTN LTELELVHCD LERIPHAVFS LLSLQELDLK ENNLKSIEEI VSFQHLRKLT VLKLWYNSIA YIPEHIKKLT SLERLFFSHN KVEVLPSHLF LCNKIRYLDL SYNDIRFIPP EIGVLQSLQY FSITCNKVES

LPDELYFCKK LKTLKIGKNS LSVLSPKIGN LLFLSYLDIK GNHFEVLPPE LGDCRALKRA GLVVEDALFE TLPSDVREQM KAD

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®): 1. 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. 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. ≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) **Target Details** LRRC8C Target: Alternative Name: Lrrc8c (LRRC8C Products) Background: Volume-regulated anion channel subunit LRRC8C (Factor for adipocyte differentiation 158) (Leucine-rich repeat-containing protein 8C), 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:29769723). 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 and glutamate, in response to osmotic stress (By similarity). The VRAC channel also mediates transport of immunoreactive cyclic dinucleotide GMP-AMP (2'-3'-cGAMP), an immune messenger produced in response to DNA virus in the cytosol (By similarity). Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E), channel characteristics depend on the precise subunit composition (By similarity). May play a role in adipogenesis (PubMed:15184384, PubMed:15564382, PubMed:21804215). {ECO:0000250|UniProtKB:Q8TDW0, ECO:0000269|PubMed:15184384, ECO:0000269|PubMed:15564382, ECO:0000269|PubMed:21804215, ECO:0000269|PubMed:29769723}. Molecular Weight: 92.4 kDa UniProt: Q8R502 **Application Details Application Notes:** In addition to the applications listed above we expect the protein to work for functional studies

Application Details

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	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
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	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.
Expiry Date:	Unlimited (if stored properly)