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Datasheet for ABIN3093612

LRRC7 Protein (AA 1-1537) (Strep Tag)

Overview

Quantity:	1 mg
Target:	LRRC7
Protein Characteristics:	AA 1-1537
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC7 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MTTKRKIIGR LVPCRCFRGE EEIISVLDYS HCSLQQVPKE VFNFERTLEE LYLDANQIEE LPKQLFNCQA LRKLSIPDND LSNLPTTIAS LVNLKELDIS KNGVQEFPEN IKCKCKLTII EASVNPISKL PDGFTQLLNL TQLYLNDAFL EFLPANFGRL VKLRILELRE NHLKTLPKSM HKLAQLERLD LGNNEFGELP EVLDQIQNLR ELWMDNNALQ VLPGSIGKLG MLVYLDMSKN RIETVDMDIS GCEALEDLLL SSNMLQQLPD SIGLLKKLTT LKVDDNQLTM LPNTIGNLSL LEEFDCSCNE LESLPSTIGY LHSLRTLAVD ENFLPELPRE IGSCKNVTVM SLRSNKLEFL PEEIGQMQL RVLNLSNRL KNLPFSFTKL KELAALWLSN NQSKALIPLQ TEAHPETKQR VLTNYMFPQQ PRGDEFQSD SDSFNPTLWE EQRQQRMTVA FEFEDKKEDD ENAGKVKDLS CQAPWERGQR GITLQPARLS GDCCTPWARC DQIQDMPVP QNDPQLAWGC ISGLQQERSM CTPLPVAAQS TTLPSLSGRQ VEINLKRYPT PYPEDLKNMV KSVQNLVGKP SHGVRVENS PTANTEQTVK EKYEHKWPVA PKEITVEDSF VHPANEMRIG ELHPSLAETP LYPPKLVLLG KDKKESTDES EVDKTHCLNN SVSSGTYSYD SPSQASSGSS NTRVKVGSGLQ TTAKDAVHNS
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LWGNRIAPSF PQPLDSKPLL SQREAVPPGN IPQRPDRLPM SDTFTDNWTD GSHYDNTGFV
AEETTAENAN SNPLLSSKSR STSSHGRRPL IRQDRIVGVP LELEQSTHRH TPETEVPPSN
PWQNWTRTPS PFEDRTAFPS KLETTPTTSP LPERKEHIKE STEIPSPFSP GVPWEYHDSN
PNRSLSNVFS QIHCRPESSK GVISISKSTE RLSPLMKDIK SNKFKKSQSI DEIDIGTYKV
YNIPLENYAS GSDHLGSHER PDKMLGPEHG MSSMSRSQSV PMLDDEMLTY GSSKGPQQQK
ASMTKKVYQF DQSFNPQGSV EVKAEKRIPP PFQHNPEYVQ QASKNIAKDL ISPRAYRGYP
PMEQMFSFSQ PSVNEDAVVN AQFASQGARA GFLRRADSLV SATEMAMFRR VNEPHELPPPT
DRYGRPPYRG GLDRQSSVTV TESQFLKRNG RYEDEHPSYQ EVKAQAGSFP VKNLTQRRPL
SARSYSTESY GASQTRPVSA RPTMAALLEK IPSDYNLGNY GDKPSDNSDL KTRPTPVKGE
ESCGKMPADW RQQLLRHIEA RRLDRNAAYK HNTVNLGMLP YGGISAMHAG RSMTLNLQTK
SKFDHQELPL QKTPSQSNI LDNGQEDVSP SGQWNPYPLG RRDVPPDTIT KKAGSHIQL
MGSQSLQHRS REQQPYEGNI NKVTIQQFQS PLPIQPSSQ ATRGPQPGRC LIQTKGQRSM
DGYPEQFCVR IEKNPGLGFS ISGGISGQGN PFKPSDKGIF VTRVQPDGPA SNLLQPGDKI
LQANGHSFVH MEHEKAVLLL KSFQNTVDLV IQRELTV

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 post-translational modifications.

Product Details

- 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.

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.
Purity:	>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:	LRRC7
Alternative Name:	LRRC7 (LRRC7 Products)
Background:	Leucine-rich repeat-containing protein 7 (Densin-180) (Densin) (Protein LAP1),FUNCTION: Required for normal synaptic spine architecture and function. Necessary for DISC1 and GRM5 localization to postsynaptic density complexes and for both N-methyl D-aspartate receptor-dependent and metabotropic glutamate receptor-dependent long term depression. {ECO:0000269 PubMed:11729199}.
Molecular Weight:	172.6 kDa
UniProt:	Q96NW7

Target Details

Pathways: [Synaptic Membrane](#)

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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)