Datasheet for ABIN3135980

LRRC7 Protein (AA 1-1490) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	LRRC7
Protein Characteristics:	AA 1-1490
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC7 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MTTKRKLIGR LVPCRCFRGE EEIISVLDYS HCSLQQVPKE VFNFERTLEE LYLDANQIEE LPKQLFNCQA LRKLSIPDND LSSLPTSIAS LVNLKELDIS KNGVQEFPEN IKCCKCLTII EASVNPISKL PDGFTQLLNL TQLYLNDAFL EFLPANFGRL VKLRILELRE NHLKTLPKSM HKLAQLERLD LGNNEFSELP EVLDQIQNLR ELWMDNNALQ VLPGSIGKLK MLVYLDMSKN RIETVDMDIS GCEALEDLLL SSNMLQQLPD SIGLLKKLTT LKVDDNQLTM LPNTIGNLSL LEEFDCSCNE LESLPPTIGY LHSLRTLAVD ENFLPELPRE IGSCKNVTVM SLRSNKLEFL PEEIGQMQRL RVLNLSDNRL KNLPFSFTKL KELAALWLSD NQSKALIPLQ TEAHPETKQR VLTNYMFPQQ PRGDEDFQSD SDSFNPTLWE EQRQQRMTVA FEFEDKKEDD ESAGKVKALS CQAPWDRGQR GITLQPARLS GDCCTPWARC DQQIQDMPVP QSDPQLAWGC ISGLQQERSM CAPLPVAAQS TTLPSLSGRQ VEINLKRYPT PYPEDLKNMV KSVQNLVGKP SHGVRVENSN PTANTEQTVK EKFEHKWPVA PKEITVEDSF VHPANEMRIG ELHPSLAETP LYPPKLVLLG KDKKESTDES EVDKTHCLNN SVSSGTYSDY SPSQASSASS NTRMKVGSLQ ATAKDAVHNS

	LWGNRIAPPF PQPLDAKPLL SQREAVPPGN IPQRPDRLPM SDAFPDNWTD GSHYDNTGFV SEEAAGENAN NNPLLSSKAR SVPAHGRRPL IRQERIVGVP LELEQSTHRH TPETEVPPSN PWQNWTRTPS PFEDRTAFPS KLETTPTTSP LPERKDHMKE PTETPGPFSP GVPWEYHDPT PNRSLGNVFS QIHCRPDSSK GVIAISKSTE RLSPLMKDIK SNKFKKSQSI DEIDVGTYKV YNIPLENYAS GSDHLGSHER PDKFLGPEHG MSSMSRSQSV PMLDDEMLMY GSSKGPPQQK ASMTKKVYQF DQSFNPQGAV EVKAEKRIPP PFAHNSEYVQ QPSKNIAKDL VSPRAYRGYP PMEQMFSFSQ PSVNEDAMVN AQFASQGPRA GFLRRADSLA SSTEMAMFRR VSEPHELPPG DRYGRATYRG GLEGQSSISM TDPQFLKRNG RYEDEHPSYQ EVKAQAGSFP AKNLTQRRPL SARSYSTESY GASQTRPVSA RPTMAALLEK IPSDYNLGNY GDKTSDNSDI KTRPTPVKGE ESCGKMPADW RQQLLRHIEA RRLDRTPSQQ SNILDNGQED VSPSGQWNPY PLGRRDVPPD TITKKAGSHI QTLMGSQSLQ HRSREQQPYE GNINKVTIQQ FQSPLPIQIP SSQATRGPQP GRCLIQTKGQ RSMDGYPEQF CVRIEKNPGL GFSISGGISG QGNPFKPSDK GIFVTRVQPD GPASNLLQPG DKILQANGHS FVHMEHEKAV LLLKSFQNTV DLVIQRELTV **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. • Mouse Lrrc7 Protein (raised in Insect Cells) 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

Product Details

	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: 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 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	LRRC7
Alternative Name:	Lrrc7 (LRRC7 Products)
Background:	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:22072671}.
Molecular Weight:	167.9 kDa Including tag.
UniProt:	Q80TE7
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 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.

Application Details

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

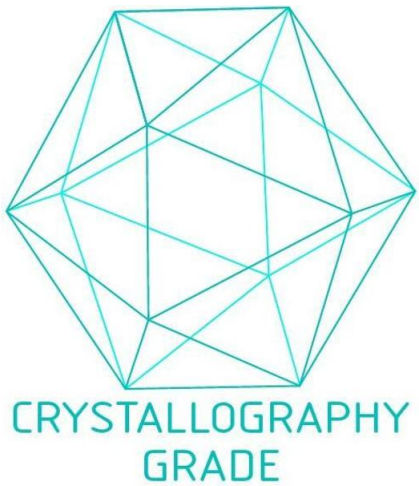

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process