Datasheet for ABIN7554473

LRRC8E Protein (AA 1-796) (His tag)

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Overview

Quantity:	1 mg
Target:	LRRC8E
Protein Characteristics:	AA 1-796
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC8E protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant LRRC8E Protein expressed in mammalian cells.
Sequence:	MIPVAEFKQF TEQQPAFKVL KPWWDVLAEY LTVAMLMIGV FGCTLQVTQD KIICLPNHEL QENLSEAPCQ QLLPRGIPEQ IGALQEVKGL KNNLDLQQYS FINQLCYETA LHWYAKYFPY LVVIHTLIFM VCTSFWFKFP GTSSKIEHFI SILGKCFDSP WTTRALSEVS GENQKGPAAT ERAAATIVAM AGTGPGKAGE GEKEKVLAEP EKVVTEPPVV TLLDKKEGEQ AKALFEKVKK FRMHVEEGDI LYTMYIRQTV LKVCKFLAIL VYNLVYVEKI SFLVACRVET SEVTGYASFC CNHTKAHLFS KLAFCYISFV CIYGLTCIYT LYWLFHRPLK EYSFRSVREE TGMGDIPDVK NDFAFMLHLI DQYDSLYSKR FAVFLSEVSE SRLKQLNLNH EWTPEKLRQK LQRNAAGRLE LALCMLPGLP DTVFELSEVE SLRLEAICDI TFPPGLSQLV HLQELSLLHS PARLPFSLQV FLRDHLKVMR VKCEELREVP LWVFGLRGLE ELHLEGLFPQ ELARAATLES LRELKQLKVL SLRSNAGKVP ASVTDVAGHL QRLSLHNDGA RLVALNSLKK LAALRELELV ACGLERIPHA VFSLGALQEL DLKDNHLRSI EEILSFQHCR KLVTLRLWHN QIAYVPEHVR KLRSLEQLYL SYNKLETLPS QLGLCSGLRL LDVSHNGLHS LPPEVGLLQN LQHLALSYNA LEALPEELFF

Product Details

	CRKLRTLLLG DNQLSQLSPH VGALRALSRL ELKGNRLEAL PEELGNCGGL KKAGLLVEDT LYQGLPAEVR DKMEEE **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	LRRC8E
Alternative Name:	LRRC8E (LRRC8E Products)
Background:	Volume-regulated anion channel subunit LRRC8E (Leucine-rich repeat-containing protein 8E),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:24790029, PubMed:26824658, PubMed:28193731). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine (PubMed:24790029, PubMed:26824658). Mediates efflux of amino acids, such as aspartate, in response to osmotic

Target Details

	stress (PubMed:28193731). 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 (PubMed:33171122). Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E), channel characteristics depend on the precise subunit composition (PubMed:24790029, PubMed:26824658, PubMed:28193731). Also plays a role in lysosome homeostasis by forming functional lysosomal VRAC channels in response to low cytoplasmic ionic strength condition: lysosomal VRAC channels are necessary for the formation of large lysosome-derived vacuoles, which store and then expel excess water to maintain cytosolic water homeostasis (PubMed:33139539). {ECO:0000269|PubMed:24790029, ECO:0000269|PubMed:26824658, ECO:0000269|PubMed:28193731, ECO:0000269|PubMed:33139539, ECO:0000269|PubMed:33171122}.
Molecular Weight:	90.2 kDa
UniProt:	Q6NSJ5

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months