Datasheet for ABIN7563996

LRRC8E Protein (AA 1-795) (His tag)

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Overview

Quantity:	1 mg
Target:	LRRC8E
Protein Characteristics:	AA 1-795
Origin:	Mouse
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 KIICLPSHES RENISGAPCQ QLLPQGISEQ MGGLRELSGL KNNLDLQQYS FINQLCYETA LHWYAKYFPY LVVIHTLIFM VCTSFWFKFP GTSSKIEHFI SILGKCFDSP WTTRALSEVS GENHKGPASG RAMVTTVTTT GAGSGKVGEG EKEKVLIEPE KVVSEPPVVT LLDKKEGEQA KALFEKVKKF RVHVEEGDIL YSMYIRQTVL KVCKFFAILV YNLIYVEKIS FLVACRVETS EITGYASFCC NHTKAHLFSK LAFCYISFVC VYGITCLYTL YWLFHRPLKE YSFRSVREET GMNDIPDVKN DFAFMLHLID QYDSLYSKRF AVFLSEVSES RLKQLNLNHE WTPEKLRQKL QRNMRGRLEL SLCMLPGLPD TVFELSEVEA LRLEAICDIS FPPGLSQLVN LQELSLLHSP ARLPFSSQIF LRDRLKVICV KFEELREVPL WVFGLRGLEE LHLEGLFPPE MARGATLESL RELKQLKVLS LRSNAGKVPA SVTDVAGHLQ RLSLHNDGAR LLALNSLKKL AVLRELELVA CGLERIPHAI FSLGALQELD LKDNHLRSIE EILSFQHCRK LVTLRLWHNQ IAYVPEHVRK LRSLEQLYLS HNKLETLPTQ LGQCFGLRLL DLSHNGLRSL PPELGLLQSL QHLALSYNAL ESLPDELFFC

Product Details

	HKLRTLLLGY NHLTQLSPDV AALQALSRLE LKGNRLETLP EELGDCKGLK KSGLLVEDTL YEGLPAEVRE KMEEE **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 (By similarity). The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine (By similarity). Mediates efflux of amino acids, such as aspartate, in response to osmotic stress (By similarity). The VRAC channel also mediates transport of immunoreactive cyclic dinucleotide

Target Details

	GMP-AMP (2'-3'-cGAMP), an immune messenger produced in response to DNA virus in the cytosol (PubMed:32277911). 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). 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 (By similarity). {ECO:0000250|UniProtKB:Q6NSJ5, ECO:0000269|PubMed:32277911}.
Molecular Weight:	90.5 kDa
UniProt:	Q66JT1

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

