Datasheet for ABIN7554424

LRRC8C Protein (AA 1-803) (His tag)

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Overview

Quantity:	1 mg
Target:	LRRC8C
Protein Characteristics:	AA 1-803
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LRRC8C protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant LRRC8C Protein expressed in mammalian cells.
Sequence:	MIPVTEFRQF SEQQPAFRVL KPWWDVFTDY LSVAMLMIGV FGCTLQVMQD KIICLPKRVQ PAQNHSSLSN VSQAVASTTP LPPPKPSPAN PITVEMKGLK TDLDLQQYSF INQMCYERAL HWYAKYFPYL VLIHTLVFML CSNFWFKFPG SSSKIEHFIS ILGKCFDSPW TTRALSEVSG EDSEEKDNRK NNMNRSNTIQ SGPEDSLVNS QSLKSIPEKF VVDKSTAGAL DKKEGEQAKA LFEKVKKFRL HVEEGDILYA MYVRQTVLKV IKFLIIIAYN SALVSKVQFT VDCNVDIQDM TGYKNFSCNH TMAHLFSKLS FCYLCFVSIY GLTCLYTLYW LFYRSLREYS FEYVRQETGI DDIPDVKNDF AFMLHMIDQY DPLYSKRFAV FLSEVSENKL KQLNLNNEWT PDKLRQKLQT NAHNRLELPL IMLSGLPDTV FEITELQSLK LEIIKNVMIP ATIAQLDNLQ ELSLHQCSVK IHSAALSFLK ENLKVLSVKF DDMRELPPWM YGLRNLEELY LVGSLSHDIS RNVTLESLRD LKSLKILSIK SNVSKIPQAV VDVSSHLQKM CIHNDGTKLV MLNNLKKMTN LTELELVHCD LERIPHAVFS LLSLQELDLK ENNLKSIEEI VSFQHLRKLT VLKLWHNSIT YIPEHIKKLT SLERLSFSHN KIEVLPSHLF LCNKIRYLDL SYNDIRFIPP EIGVLQSLQY FSITCNKVES

Product Details

	LPDELYFCKK LKTLKIGKNS LSVLSPKIGN LLFLSYLDVK GNHFEILPPE LGDCRALKRA GLVVEDALFE TLPSDVREQM KTE **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:	LRRC8C
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: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, PubMed:28193731). Plays a redundant role in the

Target Details

	efflux of amino acids, such as aspartate and glutamate, in response to osmotic stress (PubMed:24790029, PubMed:26824658, 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). {ECO:0000269|PubMed:24790029, ECO:0000269|PubMed:26824658, ECO:0000269|PubMed:28193731, ECO:0000269|PubMed:33171122}.
Molecular Weight:	92.5 kDa
UniProt:	Q8TDW0

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

