

Recombinant Mouse Lrrc8a Protein, Myc/DDK-tagged

Cat. No. Lrrc8a-3844M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length leucine rich repeat containing 8A VRAC subunit A (Lrrc8a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine. Mediates efflux of amino acids, such as aspartate and glutamate, in response to osmotic stress. Required for channel activity, together with at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition. Can form functional channels by itself (in vitro). Involved in B-cell development: required for the pro-B cell to pre-B cell transition. Also required for T-cell development. May play a role in lysosome homeostasis.
Molecular Mass	94.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Lrrc8a leucine rich repeat containing 8A VRAC subunit A [Mus musculus (house mouse)]
Official Symbol	Lrrc8a
Synonyms	Lrrc8a; leucine rich repeat containing 8A VRAC subunit A; Lr; eb; SWE; ebo; Lrrc8; SWELL1; mKIAA1437; volume-regulated anion channel subunit LRRC8A; leucine-rich repeat-containing 8; leucine-rich repeat-containing protein 8A
Gene ID	241296
mRNA Refseq	NM_177725
Protein Refseq	NP_808393
UniProt ID	Q80WG5

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