

Recombinant Human LRRC8D Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LRRC8D-3328H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LRRC8D MS Standard C13 and N15-labeled recombinant protein (NP_001127951) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. The VRAC channel conducts iodide better than chloride and can also conduct organic osmolytes like taurine. Plays a redundant role in the efflux of amino acids, such as aspartate, in response to osmotic stress. Channel activity requires LRRC8A plus at least one other family member (LRRC8B, LRRC8C, LRRC8D or LRRC8E); channel characteristics depend on the precise subunit composition. LRRC8A and LRRC8D are required for the uptake of the drug cisplatin. Mediates the import of the antibiotic blasticidin-S into the cell.
Molecular Mass	98.2 kDa
AA Sequence	MFTLAEVASLNDIQPTYRILKPWWDFMDYLAVVMLMVAIFAGTMQLTKDQVVCLPV LPSPVNSKAHTPPGNAEVTTNIPKMEAATNQDQDGRRTNDISFGTSAVTPDIPLRAT YPRTFALPNQEAKKEKKDPTGRKTNLDFQYVFINQMCYHLALPWYSKYFPYLALI

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HTIILMVSSNFWFKYPKTCSKVEHFVSILGKCFESPWTTKALSETACEDSEENKQRIT
GAQTLPKHVSTSSDEGSPSASTPMINKTGFKFSAEKPVIEVPSMTILDKKDGEQAKA
LFEKVRKFRAHVEDSDLIYKLYVVQTVIKTAKFIFILCYTANFVNAISFEHVCKPKVEHLI
GYEVFECTHNMAYMLKKLLISYISIIICVYGFICLYTLFWLFRIPLKEYSFEEKVREESSFS
DIPDVKNDFALLHMVDQYDQLYSKRFGVFLSEVSENKLREISLNHEWTFEKLQRHI
SRNAQDKQELHLFMLS GVPDAVFDLTDLVDLKLELPEAKIPAKISQMTNLQELHLCH
CPAKVEQTAFSFLRDHLRCLHVKFTDVAEIPAWVYLLKNLRELYLIGNLNSENNKMIG
LESLRELRLHLKILHVKSNTKVPSNITDVAPHLTKLVIHNDGTKLLVLNSLKKMMNVAE
LELQNCCELERIPHAIFSLSNLQELDLKSNNIRTIEEISFQHLKRLTCLKLWHNKIVTIPP
SITHVKNLES LYFSNNKLES LPVAVFSLQKLRLCDVSYNNISMIPIEIGLLQNLQHLHIT
GNKVDILPKQLFKCIKLRTLNLGQNCITSLPEKVGQLSQLTQLELKGNCCLDR LPAQLG
QCRMLKKSGLVVEDHLFDTLPLEVKEALNQDINIPFANGITRTRPLEQKLISEEDLAAN
DILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name **LRRC8D leucine rich repeat containing 8 VRAC subunit D [Homo sapiens (human)]**

Official Symbol **LRRC8D**

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Synonyms	LRRC8D; leucine rich repeat containing 8 family, member D; leucine rich repeat containing 5, LRRC5; leucine-rich repeat-containing protein 8D; FLJ10470; leucine rich repeat containing 5; leucine-rich repeat-containing 5; leucine-rich repeat-containing protein 5; LRRC5; FLJ20403;
Gene ID	55144
mRNA Refseq	NM_001134479
Protein Refseq	NP_001127951
MIM	612890
UniProt ID	Q7L1W4
SDS-PAGE	