

Recombinant Human LRRTM4 Protein, Gln31-Lys424, C-6×His tagged

Cat. No. LRRTM4-07H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LRRTM4 Protein, Gln31-Lys424, with a C-terminal 6-His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	E.coli
ProteinLength	Gln31-Lys424
Description	Predicted to enable heparan sulfate proteoglycan binding activity. Predicted to be involved in regulation of synapse assembly. Predicted to act upstream of or within AMPA glutamate receptor clustering; positive regulation of synapse assembly; and regulation of presynaptic membrane organization. Predicted to be located in postsynaptic membrane. Predicted to be part of AMPA glutamate receptor complex. Predicted to be active in extracellular matrix; extracellular space; and glutamatergic synapse. Predicted to be integral component of postsynaptic density membrane.
Bio-activity	Measured by its binding ability in a functional ELISA. When rhLRRTM4 is coated at 5 µg/mL (100 µL/well), rhNeurexin 1 beta /Fc Chimera binds with an apparent KD <15 nM.
Molecular Mass	Predicted Molecular Mass: 46.0 kDa SDS-PAGE: 60-70 kDa, reducing conditions

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Endotoxin	< 0.01 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
N-terminal Sequence Analysis	No results obtained: Gln31 predicted
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 300 μg/mL in PBS.
References	1. Lauren, J. et al. (2003) Genomics 81:411. 2. Linhoff, M.W. et al. (2009) Neuron 61:734. 3. Majercak, J. et al. (2006) Proc. Natl. Acad. Sci. USA 103:17967.

GENE INFORMATION

Gene Name	LRRTM4 leucine rich repeat transmembrane neuronal 4 [Homo sapiens (human)]
Official Symbol	LRRTM4
Synonyms	LRRTM4; leucine rich repeat transmembrane neuronal 4; leucine-rich repeat transmembrane neuronal protein 4; FLJ12568; leucine-rich repeat transmembrane neuronal 4 protein; MGC120633; MGC120636;

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Gene ID	80059
mRNA Refseq	NM_024993
Protein Refseq	NP_079269
MIM	610870
UniProt ID	Q86VH4

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