

# Recombinant Human LRRTM4 Protein, Gln31-Lys424, C-6xHis tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human LRRTM4 Protein, Gln31-Lys424, with a C-terminal 6-His tag was expressed in Mouse myeloma cell line.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Gln31-Lys424
<b>Description</b>	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.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	Predicted Molecular Mass: 46.0 kDa SDS-PAGE: 60-70 kDa, reducing conditions

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	< 0.01 EU/μg of the protein by the LAL method.
<b>Purity</b>	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>N-terminal Sequence Analysis</b>	No results obtained: Gln31 predicted
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution in PBS.
<b>Shipping</b>	The product is shipped at ambient temperature.
<b>Reconstitution</b>	Reconstitute at 300 μg/mL in PBS.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Lauren, J. et al. (2003) Genomics 81:411.</li> <li>2. Linhoff, M.W. et al. (2009) Neuron 61:734.</li> <li>3. Majercak, J. et al. (2006) Proc. Natl. Acad. Sci. USA 103:17967.</li> </ol>

## GENE INFORMATION

<b>Gene Name</b>	LRRTM4 leucine rich repeat transmembrane neuronal 4 [ Homo sapiens (human) ]
<b>Official Symbol</b>	LRRTM4
<b>Synonyms</b>	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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