

Active Recombinant Human Leucine Rich Repeat Transmembrane Neuronal 3, His-tagged

Cat. No. LRRTM3-5683H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LRRTM3 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Glu31-Lys419.
Species	Human
Source	Mammalian Cells
Protein Length	31-419 a.a.
Description	Human LRRTM3 is a 63kDa type I transmembrane protein, and one of four members of the LRRTM family of proteins within the leucine-rich repeat superfamily. There are two isoforms of LRRTM3. Isoform 1 is synthesized as a precursor with a 30 amino acid signal sequence, a 389 aa extracellular region, a 21 aa transmembrane region, and a 141 aa cytoplasmic region. In isoform 2, aa 513 is changed from isoleucine to valine, and aa 514 to 581 are missing, producing a cytoplasmic region of only 74 aa.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Glu31
Molecular Weight	45.2 kDa
Activity	Measured by its ability to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons. Able to significantly enhance neurite outgrowth when immobilized

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	asa 3 µL droplet containing 60-250 ng on a nitrocellulose-coated microplate.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	50-60kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100µg/mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	LRRTM3 leucine rich repeat transmembrane neuronal 3 [Homo sapiens]
Official Symbol	LRRTM3
Synonyms	LRRTM3; leucine rich repeat transmembrane neuronal 3; MGC131810; leucine-rich repeat transmembrane neuronal protein 3; UNQ803/PRO1693; OTTHUMP00000019682; OTTHUMP00000019683
Gene ID	347731
mRNA Refseq	NM_178011
Protein Refseq	NP_821079

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MIM	610869
UniProt ID	Q86VH5
Chromosome Location	10q22.1

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