

Active Recombinant Human Leucine Rich Repeat Transmembrane Neuronal 1, His-tagged

Cat. No. LRRTM1-5682H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LRRTM1 protein was expressed in Murine myeloma cell line with a C-terminal 6-Histag. Ala35-Ile425.
Species	Human
Source	Mammalian Cells
Protein Length	35-425 a.a.
Description	Human LRRTM1 is a 58-59 kDa type I transmembrane protein that belongs to the LRRTM family of proteins within the leucine-rich repeat superfamily. It is synthesized as a precursor with a 34 amino acid signal sequence, a 393 aa luminal region, a 21 aa transmembrane region, and a 74 aa cytoplasmic region. The luminal portion of LRRTM1 contains three N-linked glycosylation sites and 10 LRRs flanked by cysteine-rich domains. The cytoplasmic region contains several tyrosine, serine, and threonine residues that have potential to be phosphorylated and thus to be involved in signal transduction.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala35
Molecular Weight	44.4 kDa

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Activity	Measured by its ability to enhance neurite outgrowth of E18 rat embryonic cortical neurons. Able to significantly enhance neurite outgrowth when immobilized at 6-25 µg/mL on a nitrocellulose-coated microplate.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	70-85kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/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	LRRTM1 leucine rich repeat transmembrane neuronal 1 [Homo sapiens]
Official Symbol	LRRTM1
Synonyms	LRRTM1; leucine rich repeat transmembrane neuronal 1; FLJ32082; leucine-rich repeat transmembrane neuronal protein 1; leucine-rich repeat transmembrane neuronal 1 protein; UNQ675/PRO1309; OTTHUMP00000194829; OTTHUMP00000202801; OTTHUMP00000203404
Gene ID	347730
mRNA Refseq	NM_178839

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Protein Refseq	NP_849161
MIM	610867
UniProt ID	Q86UE6
Chromosome Location	2p12
Function	molecular function

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