

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

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

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Human LRRTM3 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Glu31-Lys419.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>              | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Length</b>      | 31-419 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>         | 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. |
| <b>Form</b>                | Lyophilized from a 0.2 µm filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>N-terminal Sequence</b> | Glu31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Weight</b>    | 45.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Activity</b>            | 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.                                                                                                                                                                                         |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                   |
| <b>SDS-PAGE</b>        | 50-60kDa, reducing conditions.                                                                                                                                                                                                                                       |
| <b>Purity</b>          | >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                          |
| <b>Reconstitution</b>  | 100µg/mL in sterile PBS                                                                                                                                                                                                                                              |
| <b>Storage</b>         | 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

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

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|------------------------|---------|
| MIM                    | 610869  |
| UniProt ID             | Q86VH5  |
| Chromosome<br>Location | 10q22.1 |

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