

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

Cat. No. LRRN3-5681H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human LRRN3 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Val23-Thr628.
Species	Human
Source	Mammalian Cells
Protein Length	23-628 a.a.
Description	LRRN3 is an 85 kDa, N-glycosylated member of a CNS-associated family of transmembrane molecules that includes AMIGO, FLRT, LINGO, LRIG, SLITRK, and Trk subgroups. Mature human LRRN3 consists of a 606 amino acid extracellular domain with 13 LRRs, an RGD integrin-binding motif, one Ig-like domain, and one fibronectin type III-like domain, a 21 aa transmembrane segment, and a 59 aa cytoplasmic domain. Within the ECD, human LRRN3 shares 91% aa sequence identity with mouse and rat LRRN3.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Val23
Molecular Weight	69.3 kDa
Activity	Measured by the ability of the immobilized protein to enhance the adhesion of

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SAOS2human osteosarcoma cells to human Fibronectin. When 3 x 10⁴ cells per well are added to rhLRRN3 coated plates (5 µg/mL, 100 µL/well), approximately 50-70% will adhere after 1 hour at 37°C.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

SDS-PAGE 90-95kDa, reducing conditions.

Purity >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution 200µg/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 LRRN3 leucine rich repeat neuronal 3 [Homo sapiens]

Official Symbol LRRN3

Synonyms LRRN3; leucine rich repeat neuronal 3; NLRR3; NLRR-3; FIGLER5; FLJ11129; leucine-rich repeat neuronal protein 3; neuronal leucine-rich repeat protein 3; leucine-rich repeat protein, neuronal 3; fibronectin type III, immunoglobulin and leucine-rich repeat domains 5; Nbla10363; UNQ194/PRO220; OTTHUMP00000207165; OTTHUMP00000207166; OTTHUMP00000207167

Gene ID 54674

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mRNA Refseq	NM_001099660
Protein Refseq	NP_001093130
UniProt ID	Q9H3W5
Chromosome Location	7q31.1
Function	protein complexbinding

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