## **Recombinant Human LRRN3 Protein (His Tag)**

Catalog Number: PKSH031067



Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms FIGLER5;NLRR-3;NLRR3

Species Human

**Expression Host** Baculovirus-Insect Cells

SequenceMet 1-Thr 628AccessionAAH35133.1Calculated Molecular Weight70.0 kDaObserved molecular weight70 kDaTagC-His

#### **Properties**

**Purity** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile 20mM Tris, 500mM NaCl, 210% glycerol, 3Mm DTT,

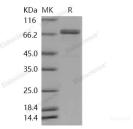
0.5mM PMSF, pH8.5, 5% trehalose, 5%mannitol, 0.01% tween-80 Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refe

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 90 % as determined by reducing SDS-PAGE.

## **Background**

Leucine-rich repeat neuronal protein 3, also known as neuronal leucine-rich repeat protein 3 (NLRR-3), is a member of leucine-rich (LRR) family whose members have significant functions in neural development. Leucine-rich repeats are short sequence motifs present in a number of proteins with diverse functions and cellular locations. All proteins containing these repeats are thought to be involved in protein-protein interactions. The crystal structure of ribonuclease inhibitor protein has revealed that leucine-rich repeats correspond to  $\beta$ - $\alpha$  structural units. These units are arranged so that they form a parallel  $\beta$ -sheet with one surface exposed to solvent, so that the protein acquires an unusual, non-globular shape. These two features may be responsible for the protein-binding functions of proteins containing leucine-rich

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repeats. LRRN3 plays an important role in cerebellum postnatal development. In a unilateral cortical injury cerebral cortex, NLRR-3 mRNA increased in layers 2-3 which suggests that NLRR-3 may be an important component of the pathophysiological response to brain injury.

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