

## Leucine Rich Repeat Kinase 2 (LRRK2) Recombinant Protein | LRRK2 recombinant protein

Recombinant Leucine Rich Repeat Kinase 2 (LRRK2)

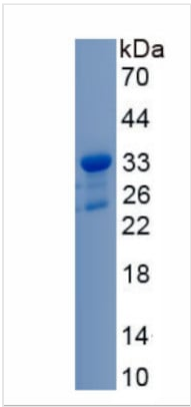
|                              |                       |                                               |
|------------------------------|-----------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA20265</b> | HOST<br><b>E.coli</b> | APPLICATIONS<br><b>SDS-Page, Western Blot</b> |
|------------------------------|-----------------------|-----------------------------------------------|

### PRODUCT SYNONYMS

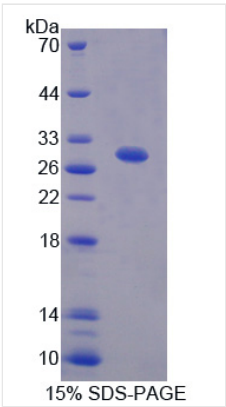
Leucine Rich Repeat Kinase 2 (LRRK2); Recombinant Leucine Rich Repeat Kinase 2 (LRRK2); LRRK2 recombinant protein

### PRODUCT SPECIFICATIONS

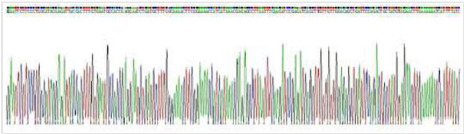
|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification                                   | > 80%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Form/Format                                           | Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Concentration                                         | 250ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for LRRK2 recombinant protein | Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Application Notes                                     | (May be suitable for use in other assays to be determined by the end user.)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Source                                                | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Residues                                              | Phe1479~Pro1729                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Tags                                                  | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Subcellular Location                                  | Membrane, Mitochondrion, Cytoplasm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Predicted isoelectric point                           | 7.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Usage                                                 | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                               | <b>Storage:</b><br>Avoid repeated freeze/thaw cycles.<br>Store at 2-8 degree C for one month.<br>Aliquot and store at -80 degree C for 12 months.<br><br><b>Stability Test:</b><br>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |



SDS-PAGE



SDS-PAGE



Gene Sequencing (Extract)

FP AIRDYHFVNA TEESDALAKL  
RKTINESLN FKIRDQLVVG QLIPDCYVEL EKIILSERKN VPIEFVIDR  
KRLLQLVREN QLQDENELP HAVHFLNESG VLLHFQDPAL QLSPLYFVEP  
KWLCKIMAI LTVKVEGCPK HPKGIISRRD VEKFLSKRRK FPKNYMSQYF  
KLEKFQIAL PIGEEYLLVP SSLSDHRPVI ELPHCENSEI IIRLYEMPVF  
PMGFWSRLIN RLLEISPYML SGRERALRP

Sequence Information

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 171846278                                                                                                          |
| NCBI GeneID                      | 120892                                                                                                             |
| NCBI Accession #                 | NP_940980.3                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_198578.3                                                                                                        |
| UniProt Accession #              | Q5S007; Q6ZS50; Q8NCX9; A6NJU2                                                                                     |
| Molecular Weight                 | Predicted Molecular Mass: 30.8kDa<br>Accurate Molecular Mass: 33kDa as determined by SDS-PAGE reducing conditions. |
| NCBI Official Full Name          | leucine-rich repeat serine/threonine-protein kinase 2                                                              |
| NCBI Official Synonym Full Names | leucine-rich repeat kinase 2                                                                                       |
| NCBI Official Symbol             | LRRK2                                                                                                              |
| NCBI Official Synonym Symbols    | PARK8; RIPK7; ROCO2; AURA17; DARDARIN                                                                              |
| NCBI Protein Information         | leucine-rich repeat serine/threonine-protein kinase 2; augmented in rheumatoid arthritis 17                        |
| UniProt Protein Name             | Leucine-rich repeat serine/threonine-protein kinase 2                                                              |
| UniProt Gene Name                | LRRK2                                                                                                              |
| UniProt Synonym Gene Names       | PARK8                                                                                                              |
| UniProt Entry Name               | LRRK2_HUMAN                                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.