

Parkinson Disease Protein 7 (PARK7) Active Protein | PARK7 active protein

Active Parkinson Disease Protein 7 (PARK7)

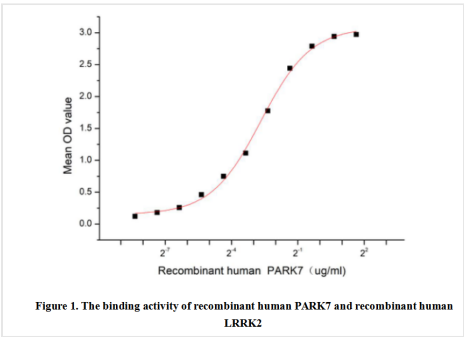
CATALOG # AAA161933	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Parkinson Disease Protein 7 (PARK7); Active Parkinson Disease Protein 7 (PARK7); Parkinson Disease Protein 7; DJ1; Autosomal Recessive; Early Onset4; PARK7 active protein

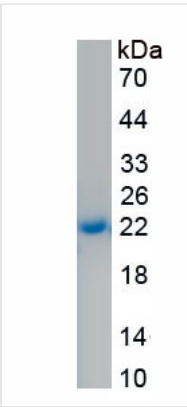
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Asp18 9
Applicable Applications for PARK7 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.5
Research Area	Neuro science
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



Bioactivity

Parkinson Disease Protein 7 (PARK7), a small multifunctional protein (20 kDa) containing 189 amino acids, which participates in transcriptional regulation and mitochondrial regulation, and acts as a molecular chaperone, oxidative stress sensor, and glyoxalase. It has also been described as a protein and nucleotide deglycase. Mutations in Park7 are associated with a small percentage of hereditary early onset Parkinson's disease. Leucine Rich Repeat Kinase 2 (LRRK2) has been identified as an interactor of PARK7, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human PARK7 and recombinant human LRRK2. Briefly, PARK7 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to LRRK2-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-PARK7 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human PARK7 and recombinant human LRRK2 was shown in Figure 1, the EC50 for this effect is 0.16 ug/mL.



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for PARK7 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	183227678
NCBI GeneID	11315
NCBI Accession #	NP_001116849.1
NCBI GenBank Nucleotide #	NM_001123377.1
UniProt Accession #	Q99497; O14805; Q6DR95; Q7LFU2; B2R4Z1
Molecular Weight	19,891 Da
NCBI Official Full Name	protein DJ-1
NCBI Official Synonym Full Names	parkinson protein 7
NCBI Official Symbol	PARK7
NCBI Official Synonym Symbols	DJ1; DJ-1
NCBI Protein Information	protein DJ-1; oncogene DJ1; Parkinson disease (autosomal recessive, early onset) 7
UniProt Protein Name	Protein DJ-1
UniProt Gene Name	PARK7
UniProt Entry Name	PARK7_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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/parkinson-disease-protein-7-park7/161933>