

Recombinant Human PARK2 protein, His-tagged, Active

Cat. No. PARK2-421H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PARK2 fused with His tag at N-terminal was expressed in Insect cells. Purified using immobilized metal affinity chromatography.
Species	Human
Source	Insect Cells
Description	Parkin is an E3-ubiquitin ligase belonging to the RBR (RING – In Between RING – RING) family. Mutations in Parkin that result in a loss-of-function are the most frequent cause of familial Parkinson's disease and are responsible for a large percentage of autosomal recessive juvenile parkinsonism (AR-JP). In addition to its auto-ubiquitination, Parkin can also ubiquitinate various substrates, including the CDK2-interacting protein cyclin E1, the α -synuclein-interacting protein synphilin-1, the synaptic vesicle-associated CDC-rel1 and the p38 subunit of aminoacyl-tRNA synthetase/JTV-1. Ubiquitination of substrates occurs in conjunction with the E2 enzymes Ubch7, Ubch8 or Ubch13/Uev1.
Form	In 50mM Tris/HCl pH7.5, 150mM NaCl, 0.03% Brij-35, 270mM sucrose, 1mM benzamidine, 0.2mM PMSF, 0.1% 2-mercaptoethanol. Frozen solution.
Molecular Mass	55 kDa
Purity	91% by SDS-PAGE and Coomassie blue staining
Applications	For use in Enzyme Assays.

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Notes	Rapidly thaw the vial under cold water and immediately place on ice. Aliquot unused material into pre-chilled microcentrifuge tubes and immediately snap-freeze the vials in liquid nitrogen prior to re-storage at -70 centigrade.
Storage	Estimated to be stable for a minimum of 1 year at -70 centigrade from date of shipment. For maximum recovery of product, centrifuge original vial prior to removing the cap.
Concentration	1.214 mg/ml
Full Length	Full L.
GENE INFORMATION	
Gene Name	PARK2 parkinson protein 2, E3 ubiquitin protein ligase (parkin) [Homo sapiens]
Official Symbol	PARK2
Synonyms	PARK2; parkinson protein 2, E3 ubiquitin protein ligase (parkin); Parkinson disease (autosomal recessive, juvenile) 2, parkin; E3 ubiquitin-protein ligase parkin; AR JP; E3 ubiquitin ligase; parkin; PDJ; parkin 2; parkinson disease protein 2; parkinson juvenile disease protein 2; PRKN; AR-JP; LPRS2;
Gene ID	5071
mRNA Refseq	NM_004562
Protein Refseq	NP_004553
MIM	602544

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UniProt ID	O60260
Chromosome Location	6q25.2-q27
Pathway	Adaptive Immune System, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Antigen processing: Ubiquitination and Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem; Immune System, organism-specific biosystem;
Function	PDZ domain binding; acid-amino acid ligase activity; chaperone binding; kinase binding; ligase activity; metal ion binding; protein binding; protein kinase binding; ubiquitin protein ligase binding; ubiquitin-protein ligase activity; zinc ion binding;

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