

Recombinant Human PARK7

Cat. No. PARK7-30783TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PARK7/DJ1 expressed in <i>Saccharomyces cerevisiae</i> ; amino acids 1-189; 189 amino acids, MWt 19.9 kDa. Protein is tagged with 26 kDa proprietary tag.
Species	Human
ProteinLength	1-189 a.a.
Description	The product of this gene belongs to the peptidase C56 family of proteins. It acts as a positive regulator of androgen receptor-dependent transcription. It may also function as a redox-sensitive chaperone, as a sensor for oxidative stress, and it apparently protects neurons against oxidative stress and cell death. Defects in this gene are the cause of autosomal recessive early-onset Parkinson disease 7. Two transcript variants encoding the same protein have been identified for this gene.
Tissue specificity	Highly expressed in pancreas, kidney, skeletal muscle, liver, testis and heart. Detected at slightly lower levels in placenta and brain. Detected in astrocytes, Sertoli cells, spermatogonia, spermatids and spermatozoa.
Biological activity	This protein contains a proprietary tag (26 kDa) and the whole proteins MW is around 45KD.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAG KDPVQCSRDDVICPDAS LEDAKKEGPYDVVVLPGGN LG AQLNSESAAVKEILKEQENRKGLIAAICAGPTALLA HE IGFGSKVTTHPLAKDKMMNGGHYTYSEN RV EKDGLILTSR GPGTSFEFALAIVE ALNGKEVAAQVKAPLV LKD
Sequence Similarities	Belongs to the peptidase C56 family.
Full Length	Full L.

GENE INFORMATION

Gene Name	PARK7 parkinson protein 7 [Homo sapiens]
Official Symbol	PARK7
Synonyms	PARK7; parkinson protein 7; Parkinson disease (autosomal recessive, early onset) 7; protein DJ-1; DJ 1; DJ1;
Gene ID	11315
mRNA Refseq	NM_001123377
Protein Refseq	NP_001116849
MIM	602533

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Uniprot ID	Q99497
Chromosome Location	1p36.23
Pathway	Alpha-synuclein signaling, organism-specific biosystem; Parkinsons disease, organism-specific biosystem;
Function	mRNA binding; peptidase activity; peroxidase activity; peroxiredoxin activity; protein binding;

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