Recombinant Human PARK7 (DJ-1), His-tagged

Cat. No. PARK7-230H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PARK7 (DJ-1) (19-end) was expressed in E. coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	19-end a.a.
Description	PARK7 or parkinson protein 7 belongs to the peptidase C56 family of proteins which acts as a positive regulator of androgen receptor-dependent transcription. PARK7 also functions as a redox-sensitive chaperone, as a sensor for oxidative stress, and it apparently protects neurons against oxidative stress and cell death. PARK7 mutations that impair transcriptional co-activator function can render dopaminergic neurons vulnerable to apoptosis and may contribute to the pathogenesis of Parkinson disease. PARK7 is an atypical peroxiredoxin-like peroxidase that scavenges hydrogen peroxide through oxidation of cys106.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~22 kDa
Purity	>85% by densitometry

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Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.2 μg/μl

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; oncogene DJ1; DJ-1; FLJ27376; FLJ34360; FLJ92274;
Gene ID	11315
mRNA Refseq	NM_001123377
Protein Refseq	NP_001116849
MIM	602533
UniProt ID	Q99497
Chromosome Location	1p36.23
Pathway	Alpha-synuclein signaling, organism-specific biosystem; Parkinsons disease,

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	organism-specific biosystem;
Function	mRNA binding; peptidase activity; peroxidase activity; peroxiredoxin activity; protein binding; protein homodimerization activity;

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