PARK7 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PARK7, Blocking Peptide
Full Product Name	PARK7 Blocking Peptide
Product Gene Name	PARK7 blocking peptide
Product Synonym Names	CAP1; DJ-1; DJ1; DJ1 protein; Epididymis secretory sperm binding protein Li 67p; FLJ27376; FLJ34360; FLJ92274; HEL S 67p; Oncogene DJ1; OTTHUMP00000001348; OTTHUMP00000001349; OTTHUMP00000001350; OTTHUMP00000001351; PARK7; PARK7_HUMAN; Parkinson disease (autosomal recessive, early onset) 7; Parkinson disease protein 7; Parkinson protein 7; Protein DJ-1; SP22
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PARK7 peptide (MBS9614863) is used for blocking the activity of PARK7 antibody (MBS9600310)
Molecular Weight	19,891 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (8021714..8045342). Location: 1p36.23
OMIM	168600
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PARK7 blocking peptide	Blocking/Control
Related Product Information for PARK7 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of PARK7 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PARK7 purchase	MBS9614863 is a blocking peptide targeting PARK7.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PARK7. It may not necessarily be applicable to this product.

NCBI GI #	183227678
NCBI GeneID	11315
NCBI Accession #	NP_001116849.1

UniProt Primary Accession #	Q99497
UniProt Secondary Accession #	O14805; Q6DR95; Q7LFU2; B2R4Z1
UniProt Related Accession #	Q99497
GenBank Nucleotide #	NM_001123377.1
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
UniProt Protein Name	Protein DJ-1
UniProt Synonym Protein Names	Oncogene DJ1; Parkinson disease protein 7
Protein Family	Protein deglycase
UniProt Gene Name	PARK7
UniProt Entry Name	PARK7_HUMAN
NCBI Protein Information	protein DJ-1; oncogene DJ1; Parkinson disease (autosomal recessive, early onset) 7
NCBI Summary for PARK7	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. [provided by RefSeq, Jul 2008]
UniProt Comments for PARK7	DJ-1: associated with autosomal recessive early onset parkinsonism. Involved in the oxidative stress response. Three cysteines in DJ-1 may be oxidized to cysteine sulphonic acid in the cellular response to H2O2. Loss of DJ-1 function may lead to neurodegeneration. Protein type: Nuclear receptor co-regulator; EC 3.4.-.-; Tumor suppressor; Transcription regulation Chromosomal Location of Human Ortholog: 1p36.23 Cellular Component: PML body; mitochondrion; axon; mitochondrial matrix; cytoplasm; plasma membrane; mitochondrial intermembrane space; nucleus; chromatin; cytosol; mitochondrial respiratory chain complex I; lipid raft Molecular Function: identical protein binding; oxidoreductase activity, acting on peroxide as acceptor; protein homodimerization activity; transcription coactivator activity; mercury ion binding; transcription factor binding; peptidase activity; mRNA binding; protein binding; copper ion binding; enzyme binding; androgen receptor binding; peroxiredoxin activity; cytokine binding; double-stranded DNA binding; glyoxalase III activity; superoxide dismutase copper chaperone activity; kinase binding; single-stranded DNA binding; receptor binding Biological Process: negative regulation of protein export from nucleus; adult locomotory behavior; protein deglycosylation; membrane hyperpolarization; proteolysis; glycolate biosynthetic process; positive regulation of interleukin-8 production; negative regulation of protein amino acid phosphorylation; regulation of mitochondrial membrane potential; single fertilization; regulation of neuron apoptosis; enzyme active site formation via L-cysteine sulfinic acid; dopamine uptake; negative regulation of neuron apoptosis; inflammatory response; negative regulation of protein binding; mitochondrion organization and biogenesis; protein stabilization; activation of protein kinase B; regulation of TRAIL receptor biosynthetic process; detoxification of copper ion; negative regulation of protein sumoylation; positive regulation of peptidyl-serine phosphorylation; negative regulation of proteasomal ubiquitin-dependent protein catabolic process; methylglyoxal catabolic process to D-lactate; membrane depolarization; positive regulation of protein kinase B signaling cascade; detoxification of mercury ion; regulation of inflammatory response; Ras protein signal transduction; negative regulation of ubiquitin-protein ligase activity; hydrogen peroxide metabolic process; lactate biosynthetic process; autophagy; negative regulation of protein kinase activity; positive regulation of transcription factor activity; negative regulation of protein ubiquitination; positive regulation of transcription from RNA polymerase II promoter; negative regulation of apoptosis Disease: Parkinson Disease 7, Autosomal Recessive Early-onset

Research Articles on PARK7	**1.** promotes angiogenesis and osteogenesis via activation of FGF receptor-1 signaling
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