

Recombinant Human OPA1

Cat. No. OPA1-30511TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 851-960 of Human OPA1 with an N terminal proprietary tag; Predicted MWt 37.73 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	This gene product is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. It is a component of the mitochondrial network. Mutations in this gene have been associated with optic atrophy type 1, which is a dominantly inherited optic neuropathy resulting in progressive loss of visual acuity, leading in many cases to legal blindness. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Highly expressed in retina. Also expressed in brain, testis, heart and skeletal muscle. Isoform 1 expressed in retina, skeletal muscle, heart, lung, ovary, colon, thyroid gland, leukocytes and fetal brain. Isoform 2 expressed in colon, liver, kidney, thyr
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NHCNLCRRGFYYYQRHFVDSELECNDVVLFWRIQRMLAIT ANTLRQQLTNTEVRRL EKNVKEVLEDFEAEDGEKKIKLLTG KRVQLAEDLKKVREIQEKLDAFIEALHQEK
Sequence Similarities	Belongs to the dynamin family.

GENE INFORMATION

Gene Name	OPA1 optic atrophy 1 (autosomal dominant) [Homo sapiens]
Official Symbol	OPA1
Synonyms	OPA1; optic atrophy 1 (autosomal dominant); dynamin-like 120 kDa protein, mitochondrial; FLJ12460; KIAA0567; MGM1; mitochondrial dynamin like GTPase; NPG; NTG;
Gene ID	4976
mRNA Refseq	NM_015560
Protein Refseq	NP_056375
MIM	605290
Uniprot ID	O60313
Chromosome	3q28-q29

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Location**Function**

GTP binding; GTPase activity; magnesium ion binding; nucleotide binding; protein binding;

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