

Recombinant Human OPA1 Protein, His-tagged

Cat. No. OPA1-2529H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human OPA1 Protein (Gln285-Glu561) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln285-Glu561
Description	The protein encoded by this gene is a nuclear-encoded mitochondrial protein with similarity to dynamin-related GTPases. The encoded protein localizes to the inner mitochondrial membrane and helps regulate mitochondrial stability and energy output. This protein also sequesters cytochrome c. 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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 34.4 kDa Accurate Molecular Mass: 36 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	OPA1 optic atrophy 1 (autosomal dominant) [Homo sapiens (human)]
Official Symbol	OPA1
Synonyms	OPA1; optic atrophy 1 (autosomal dominant); dynamin-like 120 kDa protein, mitochondrial; dynamin like guanosine triphosphatase; FLJ12460; KIAA0567; MGM1; mitochondrial dynamin like GTPase; NPG; NTG; optic atrophy protein 1; mitochondrial dynamin-like GTPase; dynamin-like guanosine triphosphatase; mitochondrial dynamin-like 120 kDa protein; largeG;
Gene ID	4976
mRNA Refseq	NM_015560
Protein Refseq	NP_056375

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