# Recombinant Human OPA1 Protein, His-tagged

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

## SPECIFICATION

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| **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<br>Accurate Molecular Mass: 36 kDa |
| **Endotoxin** | <1.0 EU per 1μg (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

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| **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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| **MIM** | 605290 |
| **UniProt ID** | O60313 |

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