

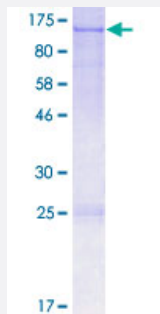
Full-Length

OPA1 (Human) Recombinant Protein (P01)

Catalog # H00004976-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human OPA1 full-length ORF (NP_056375.1, 1 a.a. - 960 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MWRLRRAAVACEVCQSLVKHSSGIKGSPLQKLHLVSRSIYHSHHPTLKLQRPQLRTSFQQFSSL
TNLPLRKLKFSPIKYGYQPRRNFWPARLATRLLKLRYLILGSAVGGGYTAKKTFDQWKDMIPDLSEY
KWVDPDVWEIDEYDFEKIRKALPSSDLVKLAPDFDKIVESLSLLKDFFTSGSPEETAFRATDRG
SESDKHFRKVSDKEIDQLQEELLHTQLKYQRILERLEKENKELRKLVLQKDDKGIHHRKLKSLID
MYSEVLDVLSYDASYNTQDHLPRVVVVGDSAGKTSVLEMAQARIFPRGSGEMMTRSPVKVT
LSEGGPHVALFKDSSREFDLTKEEDLAALRHEIELMRKNVKEGCTVSPETISLNVKGPGQLQRMV
LVDLPGVINTVTSGLMAPDTKETIFSISKAYMQNPNAIILCIQDGSVDAERSIVTDLVSQMDPHGRTIF
VLTKVDLAEKNVASPSRIQQIIEGKLFPMKALGYFAVVTGKGNSSSESIEAIREYEEFFQNSKLLKTS
MLKAHQVTRNLSLAVSDCFWKMVRESVEQQADSFKATRFNLETWKNKNYPRLRELDNRELFE
KAKNEILDEVISLSQVTPKHWEELQQSLWERVSTHVIENIYPAAQTMNSGTFTNTVDIKLKQWTD
KQLPNKAVEVAWETLQEEFSRFMTPEPKGKEHDDIFDKLKEAVKEESIKRHKWNDFAEDSLRVIQ
HNALEDRSISDKQQWDAAYFMEEALQARLKDTENAIENMVGPDWKKRWLYWKNRTQEQC VHN
ETKNELEKMLKCNEEHPAYLASDEITVRKNLESRGVEVDPSLIKDTWHQVYRRHFLKTALNHCNL
CRRGFYYYQRHFVDSELECNDVVLFWRIQRMLAITANTLRQQLTNTTEVRRLEKNVKEVLEDAED
GEKKIKLLTGKRVQLAEDLKKVREIQEKLDAFIEALHQEK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

138

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — OPA1

Entrez GeneID	4976
GeneBank Accession#	NM_015560.1
Protein Accession#	NP_056375.1
Gene Name	OPA1
Gene Alias	FLJ12460, KIAA0567, MGM1, NPG, NTG, largeG
Gene Description	optic atrophy 1 (autosomal dominant)
Omim ID	125250 165500 605290 606657
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000195065 mitochondrial dynamin-like GTPase optic atrophy 1

Disease

- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Leber hereditary optic neuropathy](#)
- [Low Tension Glaucoma](#)
- [Ocular Hypertension](#)
- [Optic Atrophies](#)
- [Optic Atrophy](#)