

Recombinant Mouse Opa1 Protein, Myc/DDK-tagged

Cat. No. Opa1-4592M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length OPA1, mitochondrial dynamin like GTPase (Opa1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Dynamin-related GTPase that is essential for normal mitochondrial morphology by regulating the equilibrium between mitochondrial fusion and mitochondrial fission. Coexpression of isoform 1 with shorter alternative products is required for optimal activity in promoting mitochondrial fusion. Binds lipid membranes enriched in negatively charged phospholipids, such as cardiolipin, and promotes membrane tubulation. The intrinsic GTPase activity is low, and is strongly increased by interaction with lipid membranes. Plays a role in remodeling cristae and the release of cytochrome c during apoptosis. Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space. Plays a role in mitochondrial genome maintenance.
Molecular Mass	111.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Opa1 OPA1, mitochondrial dynamin like GTPase [<i>Mus musculus</i> (house mouse)]
Official Symbol	Opa1
Synonyms	OPA1; optic atrophy 1 homolog (human); dynamin-like 120 kDa protein, mitochondrial; largeG; large GTP-binding protein; optic atrophy protein 1 homolog; lllr3; AI225888; AI847218; mKIAA0567; 1200011N24Rik
Gene ID	74143
mRNA Refseq	NM_133752
Protein Refseq	NP_598513
UniProt ID	P58281

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