

Recombinant Mouse Mief1 Protein, Myc/DDK-tagged

Cat. No. Mief1-4071M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length mitochondrial elongation factor 1 (Mief1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Mitochondrial outer membrane protein which regulates mitochondrial fission. Promotes the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface independently of the mitochondrial fission FIS1 and MFF proteins. Regulates DNM1L GTPase activity and DNM1L oligomerization. Binds ADP and can also bind GDP, although with lower affinity. Does not bind CDP, UDP, ATP, AMP or GTP. Inhibits DNM1L GTPase activity in the absence of bound ADP. Requires ADP to stimulate DNM1L GTPase activity and the assembly of DNM1L into long, oligomeric tubules with a spiral pattern, as opposed to the ring-like DNM1L oligomers observed in the absence of bound ADP. Does not require ADP for its function in recruiting DNM1L.
Molecular Mass	51.2 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	Mief1 mitochondrial elongation factor 1 [Mus musculus (house mouse)]
Official Symbol	Mief1
Synonyms	Mief1; mitochondrial elongation factor 1; Smc; Smcr7l; AI452372; A230016E22; mitochondrial dynamics protein MID51; Smith-Magenis syndrome chromosome region, candidate 7-like; mitochondrial dynamic protein MID51; mitochondrial dynamic protein of 51 kDa homolog; mitochondrial dynamics protein of 51 kDa homolog
Gene ID	239555
mRNA Refseq	NM_178719
Protein Refseq	NP_848834
UniProt ID	Q8BGV8

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