

Recombinant Mouse Nmral1 Protein, Myc/DDK-tagged

Cat. No. Nmral1-4445M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length NmrA-like family domain containing 1 (Nmral1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Redox sensor protein. Undergoes restructuring and subcellular redistribution in response to changes in intracellular NADPH/NADP ⁺ levels. At low NADPH concentrations the protein is found mainly as a monomer, and binds argininosuccinate synthase (ASS1), the enzyme involved in nitric oxide synthesis. Association with ASS1 impairs its activity and reduces the production of nitric oxide, which subsequently prevents apoptosis. Under normal NADPH concentrations, the protein is found as a dimer and hides the binding site for ASS1. The homodimer binds one molecule of NADPH. Has higher affinity for NADPH than for NADP ⁺ . Binding to NADPH is necessary to form a stable dimer.
Molecular Mass	34.4 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.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Nmral1 NmrA-like family domain containing 1 [Mus musculus (house mouse)]
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Official Symbol	Nmral1
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Synonyms	NMRAL1; NmrA-like family domain containing 1; nmrA-like family domain-containing protein 1; AI256624; 1110025F24Rik
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Gene ID	67824
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mRNA Refseq	NM_026393
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Protein Refseq	NP_080669
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UniProt ID	Q8K2T1
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