

Recombinant Mouse NRF1 Protein (1-503 aa), His-SUMO-tagged

Cat. No. NRF1-1800M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse NRF1 Protein (1-503 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length.
Species	Mouse
Source	E.coli
ProteinLength	1-503 aa
Description	Transcription factor that activates the expression of the EIF2S1 (EIF2-alpha) gene. Links the transcriptional modulation of key metabolic genes to cellular growth and development. Implicated in the control of nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	69.6 kDa
AA Sequence	MEEHGVQTQTEHMAIEAHAVAQQVQQVHVATYTEHSMLSADEDSPPSPEDTSYDD SDILNSTAADEVTAHLAAAGPVGMAAAAAVATGKKRKRPHVFESNPSIRKRQQTRLL RKLRLATLDEYTTTRVGQQAIVLCISPSKPNPVFKVFGAAPLENVVRKYKSMILEDLESA LAEHAPAPQEVNSELPPLTIDGIPVSVDKMTQAQLRAFIPEMLKYSTGRGKPGWGKE SCKPIWWPEDIPWANVRSDVRTEEQKQQRVSWTQALRTIVKNCYKQHGREDLLYAFE

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DQQTQTQATTTHSIAHLVPSQTVVQTFSPDGTVSLIQVGTGATVATLADASELPTT
VTVAQVNYSAVADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQE
MQQGATVTMALNSEAAAHAVATLAEATLQGGGQIVLSGETAAAVGALTGVQDANGL
VQIPVSMYQTVVTSLAQGNPQVQVAMAPVTTTRISDSAVTMDGQAVEVVTLEQ

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [Nrf1 nuclear respiratory factor 1 \[Mus musculus \]](#)

Official Symbol [NRF1](#)

Synonyms NRF1; nuclear respiratory factor 1; NRF-1; alpha-pal; C87038; D6Ertd415e;

Gene ID [18181](#)

mRNA Refseq [NM_001164226](#)

Protein Refseq [NP_001157698](#)

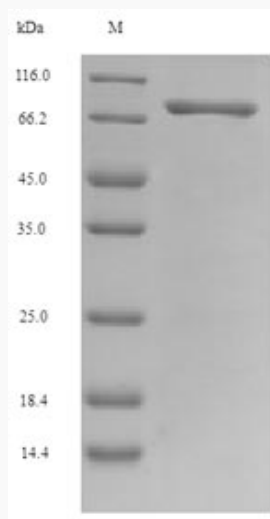
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UniProt ID

Q9WU00



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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