Recombinant Human NRF1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NRF1-1538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NRF1 MS Standard C13 and N15-labeled recombinant protein (NP_001035199) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a protein that homodimerizes and functions as a transcription factor which activates the expression of some key metabolic genes regulating cellular growth and nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. The protein has also been associated with the regulation of neurite outgrowth. Alternative splicing results in multiple transcript variants. Confusion has occurred in bibliographic databases due to the shared symbol of NRF1 for this gene and for "nuclear factor (erythroid-derived 2)-like 1" which has an official symbol of NFE2L1.
Molecular Mass	53.4 kDa
AA Sequence	MEEHGVTQTEHMATIEAHAVAQQVQQVHVATYTEHSMLSADEDSPSSPEDTSYDD SDILNSTAADEVTAHLAAAGPVGMAAAAAAVATGKKRKRPHVFESNPSIRKRQQTRLL RKLRATLDEYTTRVGQQAIVLCISPSKPNPVFKVFGAAPLENVVRKYKSMILEDLESA LAEHAPAPQEVNSELPPLTIDGIPVSVDKMTQAQLRAFIPEMLKYSTGRGKPGWGKE SCKPIWWPEDIPWANVRSDVRTEEQKQRVSWTQALRTIVKNCYKQHGREDLLYAFE

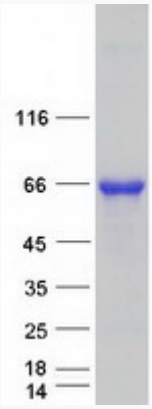
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	DQQTQTQATATHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPTT VTVAQVNYSAVADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQE MQQGATVTMALNSEAAAHAVATLAEATLQGGGQIVLSGETAAAVGALTGVQDANGL VQIPVSMYQTVVTSLAQGNGPVQVAMAPVTTRISDSAVTMDGQAVEVVTLEQTRTR PLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	NRF1 nuclear respiratory factor 1 [Homo sapiens (human)]
Official Symbol	NRF1
Synonyms	NRF1; nuclear respiratory factor 1; alpha palindromic binding protein; ALPHA PAL; EWG; NRF-1; alpha palindromic-binding protein; ALPHA-PAL;
Gene ID	4899
mRNA Refseq	NM_001040110
Protein Refseq	NP_001035199

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MIM	600879
UniProt ID	Q16656
SDS-PAGE	

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