Recombinant Human NRF1

Cat. No. NRF1-30415TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human NRF1 with a proprietary tag; predicted MWt 34.98 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	85 amino acids
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. Alternate transcriptional splice variants, which encode the same protein, have been characterized. Additional variants encoding different protein isoforms have been described but they have not been fully characterized. 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 Weight	34.980kDa inclusive of tags
Tissue specificity	Ubiquitously expressed with strongest expression in skeletal muscle.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TQAQLRAFIPEMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSDVRTEEQKQR VSWTQALRTIVKNCYKQHGREDLLYAFEDQ
Sequence Similarities	Belongs to the NRF1/Ewg family.

GENE INFORMATION

Gene Name	NRF1 nuclear respiratory factor 1 [Homo sapiens]
Official Symbol	NRF1
Synonyms	NRF1; nuclear respiratory factor 1; alpha palindromic binding protein; ALPHA PAL; EWG;
Gene ID	4899
mRNA Refseq	NM_001040110
Protein Refseq	NP_001035199
MIM	600879
Uniprot ID	Q16656

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Chromosome Location	7q32
Pathway	Energy Metabolism, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Mitochondrial Gene Expression, organism-specific biosystem;
Function	DNA binding;

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