

Recombinant Full Length Human NRF1 Protein, C-Flag-tagged

Cat. No. NRF1-564HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NRF1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	53.4 kDa
AA Sequence	MEEHGVQTQTEHMAIEAHAVAQQVQQVHVATYTEHSMLSADEDSPPSPEDTSYDD SDILNSTAADEVTAH LAAAGPVGMAAAAATGKKRKRPHVFESNPSIRKRQQTRL LRKLRLATLDEYTTTRVGQQAIVLCISPSKP NPVFKVFGAAPLENVVRKYKSMILEDLES ALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP EMLKYSTGRGKPGWG KESCKPIWWPEDIPWANVRSDVRTEEQKQRVSWTQALRTIVKNKYKQHGREDLLY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AFEDQQTQTQATATHSIAHLVPSQTVVQTFSPDGTSLIQVGTGATVATLADASEL
 PTTVTVAQVNYSADVADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAA
 SQEMQQGATVTMALNSEAAAHAVATLAEATLQGGGQIVLSGETAAAVGALTGVQD
 ANGLVQIPVSMYQTVVTSLAQGNPQVQVAMAPVTTRISDSAVT
 MDGQAVEVVTLEQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transcription Factors
Protein Pathways	Huntington's disease
Full Length	Full L.

GENE INFORMATION

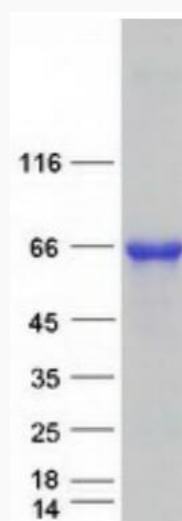
Gene Name	NRF1 nuclear respiratory factor 1 [Homo sapiens (human)]
Official Symbol	NRF1
Synonyms	ALPHA-PAL

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Gene ID	4899
mRNA Refseq	NM_001040110.2
Protein Refseq	NP_001035199.1
MIM	600879
UniProt ID	Q16656



Coomassie blue staining of purified NRF1 protein.