

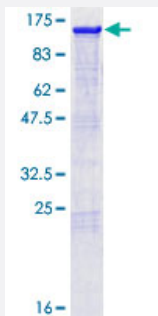
Full-Length

NFE2L2 (Human) Recombinant Protein (P01)

Catalog # H00004780-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human NFE2L2 full-length ORF (NP_006155.2, 1 a.a. - 605 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MMDLELPPPGPLPSQQDMDLIDILWRQDIDLGVSREVFDFSQRRKEYELEKQKKLEKERQEQLQK
EQEKAFFAQLQLDEETGEFLPIQPAQHIQSETSGSANYSQVAHIPKSDALYDDCMQLLAQTFFV
DDNEVSSATFQSLVPDIPGHIESPVFIATNQAQSPETSVAQVAPVDLDGMQQDIEQVWEELLSIPE
LQCLNIENDKL VETTMVPSPEAKL TEVDNYHFYSSIPMEKEVGNCSPHFLNAFEDSFSSILSTED
PNQLTVNSLNSDATVNTDFGDEFYSAFIAEPSISNSMPSPATLSHSLSELLNGPIDVSDLSLCKAF
NQNHPESTAEFNDSDSGISLNTSPSVASPEHSVESSSYGDTLLGLSDSEVEELDSAPGSVKQNG
PKTPVHSSGDMVQPLSPSQGQSTHVHDAQCENTPEKELPVSPGHRKTPFTKDKHSSRLEAHLT
RDELRAKALHIPFPVEKIINLPVVDNFNEMMSKEQFNEAQLALIRDIRRRGKNKVAQAQNCRKRLNI
VELEQDL DHLKDEKEKLLKEKGENDKSLHLLKKQLSTLYLEVFSMLRDEDGKPYSPSEYSLQQTR
DGNVFLVPKSKKPDVKKN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

94.2

Interspecies Antigen Sequence

Mouse (81); Rat (82)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NFE2L2

Entrez GeneID	4780
GeneBank Accession#	NM_006164.2
Protein Accession#	NP_006155.2
Gene Name	NFE2L2
Gene Alias	NRF2
Gene Description	nuclear factor (erythroid-derived 2)-like 2
Omim ID	600492
Gene Ontology	Hyperlink
Gene Summary	NFE2 (MIM 601490), NFE2L1 (MIM 163260), and NFE2L2 comprise a family of human genes encoding basic leucine zipper (bZIP) transcription factors. They share highly conserved regions that are distinct from other bZIP families, such as JUN (MIM 165160) and FOS (MIM 164810), although remaining regions have diverged considerably from each other (Chan et al., 1995 [PubMed 786 8116]).[supplied by OMIM]
Other Designations	NF-E2-related factor 2 OTTHUMP00000164988

Publication Reference

- [ARD1 stabilizes NRF2 through direct interaction and promotes colon cancer progression.](#)

Xizhu Fang, Yeon-Hwa Lee, Jeong-Hoon Jang, Su-Jung Kim, Seong Hoon Kim, Do-Hee Kim, Hye-Kyung Na, Kyung-Ok Kim, Jeong-Heum Baek, Young-Joon Surh.

Life Sciences 2023 Jan; 313:121217.

Application: Mass Spectrometric, Recombinant proteins

- [AMPK leads to phosphorylation of the transcription factor Nrf2, tuning transactivation of selected target genes.](#)

Matzinger M, Fischhuber K, Pölöske D, Mechtler K, Heiss EH.

Redox Biology 2020 Jan; 29:101393.

Application: KA, Recombinant protein

- [Oligopeptide Competition Assay for Phosphorylation Site Determination.](#)

Joo MS, Koo JH, Shin SB, Yim H, Kim SG.

Journal of Visualized Experiments : JoVE 2017 May; 123.

Application: Func, KA, Recombinant protein

Disease

- [Adenoma](#)
- [Alzheimer Disease](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cataract](#)
- [Chronic Disease](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)

- [Coronary Artery Disease](#)
- [Disease Progression](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Parkinson Disease](#)
- [Peptic Ulcer](#)
- [Prenatal Exposure Delayed Effects](#)
- [Pulmonary Disease](#)
- [Pulmonary Embolism](#)
- [Respiratory Distress Syndrome](#)
- [Stomach Neoplasms](#)
- [Venous Thrombosis](#)
- [Vitiligo](#)