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## Recombinant human NRF2/NFE2L2 protein

Catalog Number: ATGP2948

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-605aa

#### **UniProt No.**

016236

#### **NCBI Accession No.**

NP 006155.2

#### **Alternative Names**

NFE2 like bZIP transcription factor 2, Nuclear factor erythroid 2-related factor 2, NRF-2, NF-E2-related factor 2, HEBP1

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

69.9 kDa (625aa)

#### **Concentration**

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

## **Description**

Nuclear factor (erythroid-derived 2) -like 2, also known as NRF2, is bZIP transcription factors that heterodimerize with Maf proteins to bind Mare sequences. The NRF proteins also bind the antioxidant response element (ARE) and are implicated in the regulation of detoxification enzymes and the oxidative stress response. NRF2 is widely expressed and is thought to translocate to the nucleus after treatment with xenobiotics and antioxidants, which stimulate its release from its repressor protein, Keap1. Recombinant human NRF2 protein, fused to His-tag at N-



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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

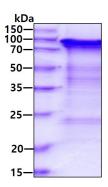
<MGSSHHHHHH SSGLVPRGSH> MMDLELPPPG LPSQQDMDLI DILWRQDIDL GVSREVFDFS QRRKEYELEK QKKLEKERQE QLQKEQEKAF FAQLQLDEET GEFLPIQPAQ HIQSETSGSA NYSQVAHIPK SDALYFDDCM QLLAQTFPFV DDNEVSSATF QSLVPDIPGH IESPVFIATN QAQSPETSVA QVAPVDLDGM QQDIEQVWEE LLSIPELQCL NIENDKLVET TMVPSPEAKL TEVDNYHFYS SIPSMEKEVG NCSPHFLNAF EDSFSSILST EDPNQLTVNS LNSDATVNTD FGDEFYSAFI AEPSISNSMP SPATLSHSLS ELLNGPIDVS DLSLCKAFNQ NHPESTAEFN DSDSGISLNT SPSVASPEHS VESSSYGDTL LGLSDSEVEE LDSAPGSVKQ NGPKTPVHSS GDMVQPLSPS QGQSTHVHDA QCENTPEKEL PVSPGHRKTP FTKDKHSSRL EAHLTRDELR AKALHIPFPV EKIINLPVVD FNEMMSKEQF NEAQLALIRD IRRRGKNKVA AQNCRKRKLE NIVELEQDLD HLKDEKEKLL KEKGENDKSL HLLKKQLSTL YLEVFSMLRD EDGKPYSPSE YSLQQTRDGN VFLVPKSKKP DVKKN

#### **General References**

Huang H C., et al. (2000) Proc Natl Acad Sci uSA. 97: 12475-12480. Tsai P Y., et al. (2012) Arthritis Rheum. 64: 232-242.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

