

Recombinant human NRF2/NFE2L2 protein

Catalog Number: ATGP2948

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-605aa

UniProt No.

Q16236

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 QLLAQTFFPV
DDNEVSSATF QSLVPDIPGH IESPVIATN QAQSPETSVA QVAPVDLDGM QDIEQVWEE LLSIPELQCL NIENDKLVET
TMVPSPEAKL TEVDNYHFYS SIPSMEKEVG NCSPHFLNAF EDSFSSILST EDPNQLTVNS LNSDATVNTD FGDEFYSAFI
AEPSISNSMP SPATLSHSLS ELLNGPIDVS DLSLCKAFNQ NHPESTAEFN DSDSGISLNT SPSVASPEHS VESSYGDTL
LGLSDSEVEE LDSAPGSVKQ NGPKTPVHSS GDMVQPLSPS QGQSTHVHDA QCENTPEKEL PVSPGHRKTP FTKDKHSSRL
EAHLTRDELK AKALHIPFPV EKIINLPVVD FNEMMSKEQF NEAQLALIRD IRRRGKNKVA AQNCRKRKLE NIVELEQDL
HLKDEKEKLL KEKGENDKSL HLLKKQLSTL YLEVFSMLRD EDGKPYSPSE YSLQQTRDGN VFLVPKSKKP DVKKN

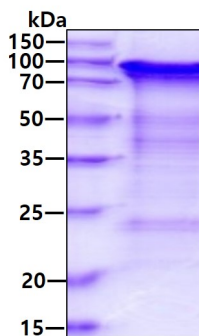
General References

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



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