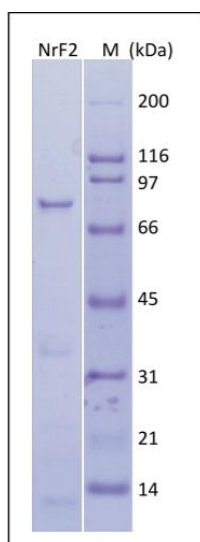


Nrf2(Human Recombinant)

Catalog Number	Size
AG215-10	10ug
AG215-25	25ug
AG215-B	Bulk

Specifications and Use

Description



Nuclear factor erythroid 2-related factors 2 (Nrf2) is a member of a basic lucine zipper (bZIP) transcription factor protein family. Nrf2 positively regulates expression of detoxifying enzyme genes at the transcription level by directly binding to the antioxidant response element (ARE). Many of these genes encode proteins involved in response to injury, inflammation and cancer. Because of antioxidant and detoxification capability in cancer cells, high levels of Nrf2 activity enhance therapeutic resistance of cancer cells. Thus, Nrf2 inhibition has been becoming a promising strategy for cancer therapy. Recombinant human Nrf2 was expressed in E coli and purified by the combination of Ni-affinity and conventional/FPLC methods to >95% homogeneity. It has been tested for the ARE-containing dsDNA binding assay.

MMDLELPPLPGLPSQQDMDLIDILWRQDIDLGVSRVDFDSQRRKEYELEKQKKLEKER
QEQLQKEQEKAFFAQLQLDEETGEFLPIQPAQHIIQSETSGSANYSQVAHIPKSDALYF
DDCMQLLAQTFFVDDNEVSSATFQSLVPDIPGHIESPVFIATNQAQSPETSVAQVAP
VDLDGMQQDIEQVWEELLSIPELQCLNIENDKLVETTMVPSPEAKLTEVDNYHFYSSI
PSMEKEVGNCSPHFLNAFEDSFSSILSTEDPNQLTVNSLNSDATVNTDFGDEFYSAFI
AEPISINSMPSPATLSHLSSELLNGPIDVSDLSLCKAFNQNHPESTAEFNDSDSGISL
NTSPSVASPEHSVESSSYGDTLLGLSDSEVEELDSAPGSVKQNGPKTPVHSSGDMVQP
LSPSQGQSTHVHDAQCENTPEKELPVSPGHRKTPFTKDKHSSRLEAHLTRDELRAKAL
HIPFPVEKIIINLPVVDFNEMMSKEQFNEAQLALIRDIRRGKNKVAAQNCRRKLENL
VELEQDLDLHLKDEKEKLLKEKGENDKSLHLLKKQLSTLYLEVFSMLRDEDGKPYSPSE
YSLQQTRDGNVFLVPKSKKPDVKKN

Ascension Number

NP_006155

Source

E coli

Molecular Mass

Approximately 80kDa.

Purity

≥95%, as determined by SDS-PAGE

Biological Activity

Recombinant Nrf2 protein was tested for its ARE-dsDNA binding activity (Fig 1) and is suitable for in vitro transcription, protein-protein and protein-DNA interactions, and other in vitro assays.

Formulation

20mM Tris-Cl, pH7.9, 20% glycerol, 100mM NaCl, 1mm DDT and 0.5mM EDTA.

Storage

The protein sample can be stored under sterile conditions at 2-8°o C for one month or at -80°o C for 12 months without detectable loss of activity. Avoid repeated thaw-freeze cycles.

Special Notes

FOR RESEARCH ONLY