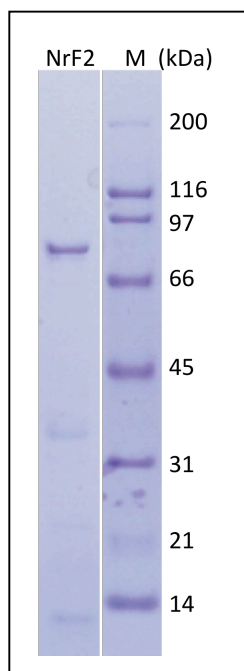


Nrf2(Human Recombinant)

Specifications and Use

Description

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



Nuclear factor erythroid 2-related factors 2 (Nrf2) is a member of a basic luciferase 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.

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MMDLELPPPG LPSQQDMDLI DILWRQDIDL GVSREVFDFS QRRKEYELEK QKKLEKERQE
QLQKEQEKAF FAQLQLDEET GEFLPIQPAQ HIQSETSGSA NYSQVAHIPK SDALYFDDCM
QLLAQTFFV DDNEVSSATF QSLVPDIPGH IESPVFIATN QAQSPETSVA QVAPVDLDGM
QQDIEQWEE LLSIPELQCL NIENDKLVET TMVPSPEAKL TEVDNYHFYS SIPSMEKEVG
NCSPHFLNAF EDSFSSILST EDPNQLTVNS LNSDATVNTD FGDEFYSAFI AEPSISNSMP
SPATLSHSL S ELLNGPIDVS DLSLCKAFNQ NHPESTAEFN DSDSGISLNT SPSVASPEHS
VESSSYGDTL LGLSDSEVEE LDSAPGSVKQ NGPKTPVHSS GDMVQPLSPS QGQSTHVHDA
QCENTPEKEL PVSPGHRKTP FTKDKHSSRL EAHLTRDEL AKALHIPFPV EKIINLPVVD
FNEMMSKEQF NEAQLALIRD IRRRGKKNVA AQNCRKRKLE NIVELEQDLD HLKDEKEKLL
KEKGENDKSL HLLKKQLSTL YLEVFSLRD EDGKPYSPSE YSLQQTRDGN VFLVPKSKKP
DVKKN
  
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Accession 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.

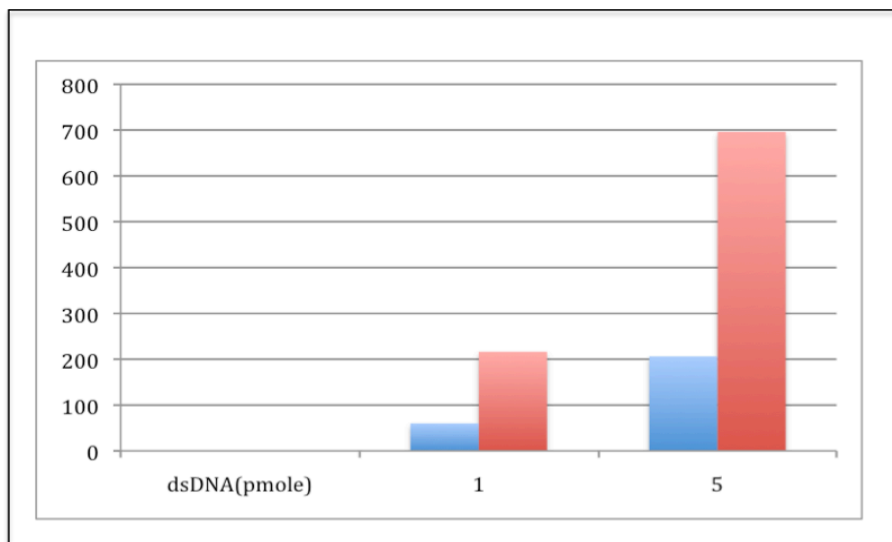
Formulation

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°C for one month or at -80°C for 12 months without detectable loss of activity. Avoid repeated thaw-freeze cycles.

Activity Test



Special Notes

FOR RESEARCH USE ONLY