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Product Description

Product Name: NFE2L2 Protein E79Q mutant

Synonyms: Nuclear factor (erythroid-derived 2)-like 2, Nrf2

Catalogue Number: 10449

Source: Human, recombinant full length, His₆-tag

Expression Host: E. coli

Molecular Weight: 26 kDa

Purity: >99% by SDS-PAGE

Introduction: NFE2L2 protein is encoded by NFE2L2 gene. It is a basic leucine zipper protein that regulates the expression of antioxidant proteins that protect against oxidative damage triggered by injury and inflammation. Several drugs that stimulate the NFE2L2 pathway are being studied for treatment of diseases that are caused by oxidative stress.

Amino Acid Sequence (1-170)

MMDLELPPPGGLPSQQDMDLIDILWRQDIDLGVSRVFD
FSQRRKEYELEKQKKLEKERQEQLQKEQEKAFFAQLQL
DEQTGEFLPIQPAQHIQSETSGSANYSQVAHIPKSDAL
YFDDCMQLLAQTFFVDDNEVSSATFQSLVPDIPGHIE
SPVFIATNQAQSPETSVA

Properties

Physical Appearance (form): Dissolved in 20mM Tris-HCl, pH8.0, 150mM NaCl.

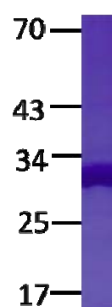
Physical Appearance (form): White or clear

Concentration: 1 mg/mL

Storage: -80°C

Preparation Instructions

Adding of 10 mM β-mercaptoethanol or 1 mM DTT into the solution to protect the protein is recommended and using of non-ionic detergents such as n-Dodecyl β-D-maltoside (DoDM) or polyethylene detergents (e.g. C₁₂E₁₀) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged NFE2L2 E79Q was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

References

1. Moi P et al., Proc. Natl. Acad. Sci. U.S.A. 91 (21): 9926-30.
2. Gold R et al., N. Engl. J. Med. 367 (12): 1098-107.

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