

Product Description

NFE2L2(E79K) Mutant

Catalog Number: 10450

Synonyms: Nuclear factor (erythroid-derived 2)-like2, Nrf2

Background: 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)

MMDLELPPPGLPSQQDMDLIDILWRQDIDLGVSRE
VFDFSQRRKEYELEKQKKLEKERQEQLQKEQEKAFA
FAQLQLDEKTGEFLPIQPAQHISSETSGSANYSQVA
HIPKSDALYFDDCMQLLAQTFFVDDNEVSSATFQS
LVPDIPGHIE SPVFIATNQAQSPETSVVA

Source: Human, recombinant full length, His₆-tag

Expression Host: E. coli

Molecular Weight: 26 kDa

Purity: >99% by SDS-PAGE

Constituents: 20 mM Tris-HCl, pH 8.0,
150 mM NaCl

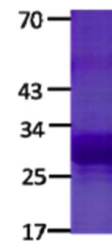
Physical Appearance: White or clear

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(E79K) 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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