NFE2L2(D29G) PROTEIN

NFE2L2(D29G) Mutant

Cat. #: 10451
Product Name: NFE2L2 Protein D29G mutant
Synonyms: Nuclear factor (erythroid-derived 2)-like 2, Nrf2
Source: Human, recombinant full length, His6-tag
Expression Host Species: 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)
MMDLELPPPGLPSQQDMDLIDILWRQDIGLGVSREVFD FSQRRKEYELEKQKKLEKERQEQLQKEQEKAFFAQLQL DEETGEFLPIQPAQHIQSETSGSANYSQVAHIPKSDAL YFDDCMQLLAQTFPFVDDNEVSSATFQSLVPDIPGHIE 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.

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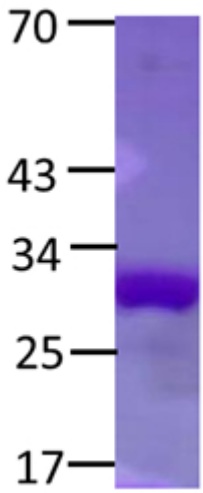

The purity of His-tagged NFE2L2 D29G was determined by SDS-PAGE and Coomassie Brilliant Blue Staining.

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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