Product Description

Pioneering GTPase and Oncogene Product Development since 2010

NFE2L2(D77V) Mutant

Catalog Number: 10446

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

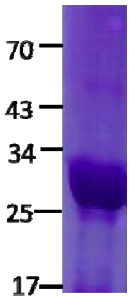
Background: NFE2L2 protein is encoded by NFE2L2 gene. It is a basic leucine zipper protein that regulates the expression of antioxidant proteins that protect against oxidative damage triggered by injury and inflammation. Several drugs that stimulatethe NFE2L2 pathway are being studied for treatmentof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

Amino Acid Sequence: (1-170)
MMDLELPPPGLPSQQDMDLIDILWRQDIDLGVSR
EVFDFSQRRKEYELEKQKKLEKERQEQLQKEQEK
AFFAQLQLVEETGEFLPIQPAQHIQSETSGSANY
SQVAHIPKSDALYFDDCMQLLAQTFPFVDDNEV
SSATFQSLVPDIPGHIESPVFIATNQAQSPETSVA

Source: Human, recombinant full length, His_6-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) orpolyethylene detergents (e.g., $C_{12}E_{10}$) also help to stabilize the protein. Avoid repeated freezing and thawing.



The purity of His-tagged NFE2L2 D77V 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): 9926-3

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