Recombinant human NMRAL1 protein

Catalog Number: ATGP1586

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-299aa

UniProt No.
Q9HBL8

NCBI Accession No.
NP_065728

Alternative Names
NmrA-like family domain containing 1, HSCARG, SDR48A1

PRODUCT SPECIFICATION

Molecular Weight
35.9 kDa (323aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.15M NaCl

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
NMRAL1 is a redox sensor protein that undergoes restructuring and subcellular redistribution in response to changes in intracellular NADPH/NADP+ levels. At low NADPH concentrations the protein is found mainly as a monomer, and binds argininosuccinate synthase (ASS1), the enzyme involved in nitric oxide synthesis. Association with ASS1 impairs its activity and reduces the production of nitric oxide, which subsecuently prevents apoptosis. under normal NADPH concentrations, the protein is found as a dimer and hides the binding site for ASS1. Recombinant human NMRAL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and

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purified by using conventional chromatography techniques.

Amino acid Sequence

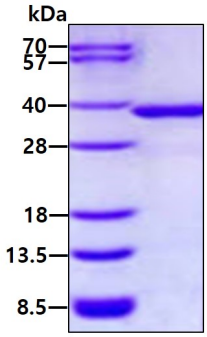
<MGSSHHHHHH SSGLVPRGSH MGSH>MVDKKL VVVFGGTGAQ GGSVARTLLE DGTFKVRVVT RNPRKKAAKE LRLQGAEVVQ GDQDDQVIME LALNGAYATF IVTNYWESCS QEQEVKQGKL LADLARRLGL HYVVYSGLEN IKKLTAGRLA AAHFDGKGEV EEYFRDIGVP MTSVRLPCYF ENLLSHFLPQ KAPDGKSYLL SLPTGDVPMD GMSVSDLGPV VLSLLKMPEK YVGQNIGLST CRHTAEEYAA LLTKHTRKVV HDAKMTPEDY EKLGFPGARD LANMFRFYAL RPDRDIELTL RLNPKALTLD QWLEQHKGDF NLL

General References

Gan.Q., et al. (2009) J. Cell. Sci. 122 (PT 22), 4081-4088
Lian,M., et al. (2009) J. Biol. Chem. 284 (27), 17998-18006

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.