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NMRAL1 Human

Catalog #:PRPS-1138

For research use only.

Description:NMRAL1 Human Recombinant produced in E. coli is a single polypeptide chain containing 323 amino acids (1-299) and having a molecular mass of 35.9 kDa.NMRAL1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms: NmrA-like family domain containing protein 1, short chain dehydrogenase/reductase family 48A member 1, HSCARG, SDR48A1, FLJ25918.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMVDKKL VVVFGGTGAQ GGSVARTLLE DGTFKVRVVT RNPRKKAAKE LRLQGAEVVQ GDQDDQVIME LALNGAYATF IVTNYWESCS QEQEVKQGKL LADLARRLGL HYVVYSGLEN IKKLTAGRLA AAHFDGKGEV EEYFRDIGVP MTSVRLPCYF ENLLSHFLPQ KAPDGKSYLL SLPTGDVPMD GMSVSDLGPV VLSLLKMPEK YV

Purity: Greater than 95% as determined by SDS-PAGE.

Formulation:
The NMRAL1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 40% glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
NMRAL1 is a redox sensor protein which goes throμgh reformation and subcellular rearrangement in reaction to alterations in intracellular NADPH/NADP+ levels. When the NADPH concentration is low the protein is found mostly as a monomer, and binds argininosuccinate synthase (ASS1), which takes part in nitric oxide synthesis. Association with ASS1 defects NMRAL1 activity and diminishes the production of nitric oxide, which then inhibits apoptosis. When the NADPH concentration is normal , the protein is found as a dimer and hides the binding site for ASS1.

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