
Product Data Sheet

Product Name: NMRAL1 Human

Cat. No.: GP24055

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NmrA-like family domain containing protein 1; short chain dehydrogenase/reductase family 48A member 1; HSCARG; SDR48A1; FLJ25918.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMVDKKL VVFGGTGAQ GGSVARTLLE DGTFKVRVVT RNPRKAAKE LRLQGAEVVQ GDQDDQVIME LALNGAYATF IVTNYWESCS QEQEVKQGKL LADLARRLGL HYVVYSGLEN IKKLTAGRLA AAHFDGKGEV EEYFRDIGVP MTSVRLPCYF ENLLSHFLPQ KAPDGKSYLL SLPTGDVPMD GMSVSDLGPV VLSLLKMPEK YVGQNIPLST CRHTAEEYAA LLTKHTRKVV HDAKMTPEDY EKLGFPGARD LANMFRFYAL RPDRDIELTL RLNPKALTLQ QWLEQHKGDF NLL		
Formulation	The NMRAL1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 40% glycerol.		

Introduction

NMRAL1 is a redox sensor protein which goes through 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.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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