

NMRAL1, 1-299 aa, Human, His tag, E.coli

Cat.NO.: TP03178

3th Edition

Synonyms:NmrA-like family domain containing 1, HSCARG, SDR48A1

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 subsequently prevents apoptosis.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.15M NaCl

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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMVDKLVVVFVGGTGAQGGSVARTLLEDGTFKVRVVTRNPRKKA AKELRL
QGAEVVQGDQDDQVIMELALNGAYATFIVTNYWESCSQEVEVKQGKLLADLARRLGLHYVVYSGLENIKKLTAGRL
AAAHFDGKGEVEEYFRDIGVPM TSVRLPCYFENLLSHFLPQKAPDGKSYLLSLPTGDVPMDGMSVSDLGPVVL SLL
KMPEKYVGQNI GLSTCRHTAEEYAALLTKHTRKVVHDAKMTPE DYKLGFPGARDLANMFRFYALRPDRDIELTLR
LNPKALTLDQWLEQHKGDFNLL

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.