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Recombinant human NDRG1 protein

Catalog Number: ATGP0386

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-394aa

UniProt No.
Q92597

NCBI Accession No.
NP_006087

Alternative Names
N-myc downstream regulated 1, CAP43, CMT4D, DRG1, GC4, HMSNL, NMSL, PROXY1, RIT42, RTP, TARG1, TDD5, N-myc downstream regulated 1 TDD5, 42 kDa, anti-GC4, cmt4d, Differentiation related gene1 protein, Drg 1, hmsnl, Human mRNA for RTP complete cds, NDRG1, tdds, N myc downstream regulated gene 1, N myc downstream regulated gene 1 protein, Ndr 1, ndr1, NDRG 1, NDRG1 protein, Protein nickel specific induction protein, Nickel specific induction protein Cap43, nmsl, Nmyc downstream regulated, reduced in tumor, reducin, Nmyc downstream regulated gene1, Nmyc downstream regulated gene1 protein, Protein regulated by oxygen 1, Protein regulated by oxygen1, proxy1, Reducing agents and tunicamycin responsive protein, tunicamycin-responsive protein

PRODUCT SPECIFICATION

Molecular Weight
43.9 kDa (402aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1mM PMSF, 10% glycerol

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

Recombinant human NDRG1 protein

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Description

N-myc downstream regulated gene (NDRG) -1 is one of 4 members of the NDRG alpha/beta-hydrolase family. This protein is classified in databases as a tumor suppressor and heavy metal-response protein. Its functions include cell-cycle regulation, cellular differentiation, apoptosis, hypoxia response and metal-ion sensing. Mutation in the NDRG1 gene has been reported to be causative for hereditary motor and sensory neuropathy-Lom (HMSNL), a severe autosomal recessive form of Charcot-Marie-Tooth (CMT) disease. Recombinant human NDRG1, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

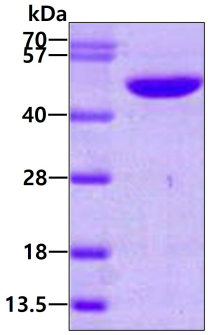
MSREMQDVDL AEVKPLVEKG ETITGLLQEF DVQEQDIETL HGSVHVTLCG TPKGNRPVIL TYHDIGMNHK TCYNPLFNYE DMQEITQHFA VCHVDAPGQQ DGAASFPAGY MYPSMDQLAE MLPGVLQQFG LKSIIGMGTG AGAYILTRFA LNNPEMVEGL VLINVNPCAE GWMDWAASKI SGWTQALPDM VVSHLFGKEE MQSNVEVVHT YRQHIVNDMN PGNLHLFINA YNSRRDLEIE RPMPGTHTVT LQCPALLVVG DSSPAVDAVV ECNSKLDPTK TTLLKMADCG GLPQISQPAK LAEAFKYFVQ GMGYMPSASM TRLMRSRTAS GSSVTSLDGT RSRSHTSEGT RSRSHTSEGT RSRSHTSEGA HLDITPNSGA AGNSAGPKSM EVSC<LEHHHH HH>

General References

Richardson DR., et al. (2008) Biochim Biophys Acta. 1783(10):1981-92.
Costa M., et al. (2008) Carcinogenesis. 29(1):2-8.

DATA

SDS-PAGE



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