

Product datasheet for **AR09269PU-N**

NDRG1 (1-394, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	NDRG1 (1-394, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MSREMQDVDL AEVKPLVEKG ETITGLLQEF DVQEQDIETL HGSVHVTLCG TPKGNRPVIL TYHDIGMNHK TCYNPLFNYE DMQEITQHFA VCHVDAPGQQ DGAASFPAGY MYPSMDQLAE MLPGVLQQFG LKSIIGMTG AGAYILTRFA LNNPEMVEGL VLINVNPCAE GWMDWAASKI SGWTQALPDM VSHLFGKEE MQSNVEVVHT YRQHIVNDMN PGNLHLFINA YNSRRDLEIE RPMPGTHTVT LQCPALLVVG DSSPAVDAW ECNSKLDPTK TLLKMACDGC GLPQISQPAK LAEAFKYFVQ GMGYMPSASM TRLMRSRTAS GSSVTSLDGT RSRSHSEGT RSRSHSEGT RSRSHSEGA HLDITPNSGA AGNSAGPKSM EVSCLEHHHH HH
Tag:	His-tag
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1 mM PMSF, 10% Glycerol
Bioactivity:	Biological: The ED50 for this effect is 0.5 - 1.5 ng/ml. Measured in a cell proliferation assay using MCF7 cell. Activity Assay 1. Cell line: MCF7 (Human breast adenocarcinoma cell) 2. Maintenance Condition: RPMI 1640 containing 10% FBS 3. Assay medium: serum free RPMI 1640 4. Cell density: 2 x 10 ⁴ cells/well (96 well plate, final volume 100ul) 5. Incubation time : 40 hrs (after sample treatment) 6. Concentration range: 0.19ng/ml - 50ng/ml 7. Detection method : BrdU assay
Preparation:	Liquid purified protein
Protein Description:	Recombinant human NDRG1, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography.



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Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001128714
Locus ID:	10397
UniProt ID:	Q92597
Cytogenetics:	8q24.22
Synonyms:	CAP43; CMT4D; DRG-1; DRG1; GC4; HMSNL; NDR1; NMSL; PROXY1; RIT42; RTP; TARG1; TDD5
Summary:	This gene is a member of the N-myc downregulated gene family which belongs to the alpha/beta hydrolase superfamily. The protein encoded by this gene is a cytoplasmic protein involved in stress responses, hormone responses, cell growth, and differentiation. The encoded protein is necessary for p53-mediated caspase activation and apoptosis. Mutations in this gene are a cause of Charcot-Marie-Tooth disease type 4D, and expression of this gene may be a prognostic indicator for several types of cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, May 2012]

Product images: