Protein NDRG1 (NDRG1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein NDRG1 (Ndrg1), Recombinant Protein
Full Product Name	Recombinant Rat Protein NDRG1 (Ndrg1)
Product Gene Name	Ndrg1 recombinant protein
Product Synonym Gene Name	Ndrg1
Sequence	SRELHDVDLA EVKPLVEKGE SITGLLQEFD VQEQDIETLH GSLHVTLCGT PKGNRPVILT YHDIGMNHKT CYNPLFNSED MQEITQHFAV CHVDAPGQQD GAPSFPVGYM YPSMDQLAEM LPGVLHKFGL KSVIGMGTGA GAYILTRFAL NNPEMVEGLV LMNVNPCAEG WMDWAASKIS GWTQALPDMV VSHLFGKEEI HSNVEVVHTY RQHILNDMNP SNLHLFISAY NSRRDLEIER PMPGTHTVTL QCPALLVVGD NSPAVDAVVE CNSKLDPTKT TLLKMADCGG LPQISQPAKL AEAFKYFVQG MGYMPSASMT RLMRSRTASG SSVTSLEGTR SRSHTSEGPR SRSHTSEGSR SRSHTSEDAR LNITPSSGAT GNNAGPKSME VSC
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	42,955 Da
Sequence Positions	2-394, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6JE36
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ndrg1 recombinant protein	This gene is a member of the N-myc downregulated gene family which belongs to the alpha beta hydrolase superfamily. This protein is a cytoplasmic protein involved in stress responses, hormone responses, cell growth, and differentiation. It is necessary for p53-mediated caspase activation and apoptosis. Mutation in this gene has been reported to be causative for hereditary motor and sensory neuropathy-Lom. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Other Notes	Small volumes of Ndrg1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Ndrg1 purchase	MBS1379866 is a recombinant protein targeting Ndrg1. Also known as Recombinant Rat Protein NDRG1 (Ndrg1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ndrg1. It may not necessarily be applicable to this product.

NCBI GI #	58865550

NCBI GeneID	299923
NCBI Accession #	NP_001011991.1
UniProt Primary Accession #	Q6JE36
UniProt Related Accession #	Q6JE36
GenBank Nucleotide #	NM_001011991.1
NCBI Official Full Name	protein NDRG1
NCBI Official Synonym Full Names	N-myc downstream regulated 1
NCBI Official Symbol	Ndrg1
NCBI Official Synonym Symbols	Ndr1
UniProt Protein Name	Protein NDRG1
UniProt Synonym Protein Names	N-myc downstream-regulated gene 1 protein; Protein Ndr1
Protein Family	Protein
UniProt Gene Name	Ndrg1
UniProt Synonym Gene Names	Ndr1; Protein Ndr1
NCBI Protein Information	protein NDRG1
UniProt Comments for Ndrg1	Stress-responsive protein involved in hormone responses, cell growth, and differentiation. Acts as a tumor suppressor in many cell types. Necessary but not sufficient for p53/TP53-mediated caspase activation and apoptosis. Has a role in cell trafficking notably of the Schwann cell and is necessary for the maintenance and development of the peripheral nerve myelin sheath. Required for vesicular recycling of CDH1 and TF. May also function in lipid trafficking. Protects cells from spindle disruption damage. Functions in p53/TP53-dependent mitotic spindle checkpoint. Regulates microtubule dynamics and maintains euploidy ().
Research Articles on Ndrg1	**1.** Ndrg-1 reduced the protein levels of cathepsin C which plays a role in invasion, indicating a potential mechanism of its anti-metastatic role in pancreatic cancer cells
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