

Bioactive

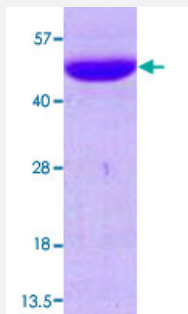
Full-Length

NDRG1 (Human) Recombinant Protein

Catalog # P3493

Size 100 ug

Applications



Specification

Product Description

Human NDRG1 (NP_006087, 1 a.a. - 394 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MSREMQDVDLAEVKPLVEKGETITGLLQEFQDIETLHGSAHVHTLCGTPKGNRPVILTYHDIG
MNHKTCYNPLFNEDMQEITQHFAVCHVDAPGQQDGAASFPAGYMYPSMDQLAEMLPGLVQQF
GLKSIIGMTGAGAYILTRFALNNPEMVEGLVLINVNPCAEGWMDWAASKISGWTQALPDMVVSH
LFGKEEMQSNVEVVHTYRQHIVNDMNPGLHLFINAYNSRRDLEIERPMPGTHVTLQCPALLVVG
DSSPAVDVAVVECNKLDPTKTTLLKMADCGGLPQISQPAKLAEAFKYFVQGMGYMPSASMTRL
MRSRTASGSSVTSLDGTRSRSHSTSEGTRSRSHSTSEGTRSRSHSTSEGAHLDTIPNSGAAGNSAGP
KSMEVSCLEHHHHHHH

Host

Escherichia coli

Theoretical MW (kDa)

43.9

Form

Liquid

Preparation Method

Escherichia coli expression system

Purification

Conventional Chromatography

Concentration

1 mg/mL

Purity

> 95% by SDS-PAGE

Activity	The ED ₅₀ for this effect is 0.5 - 1.5 ng/mL. Measured in a cell proliferation assay using MCF7 cell.
Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (10% glycerol, 0.1 mM PMSF).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — NDRG1

Entrez GeneID	10397
Protein Accession#	NP_006087
Gene Name	NDRG1
Gene Alias	CAP43, CMT4D, DRG1, GC4, HMSNL, NDR1, NMSL, PROXY1, RIT42, RTP, TARG1, TDD5
Gene Description	N-myc downstream regulated 1
Omim ID	601455 605262
Gene Ontology	Hyperlink
Gene 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. 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. [provided by RefSeq]
Other Designations	differentiation-related gene 1 protein nickel-specific induction protein Cap43 protein regulated by oxygen-1 reducing agents and tunicamycin-responsive protein tunicamycin-responsive protein

Disease

- [Alzheimer disease](#)
- [Charcot-Marie-Tooth Disease](#)
- [Cognition](#)
- [Colorectal Neoplasms](#)
- [Deafness](#)
- [Genetic Predisposition to Disease](#)
- [Tobacco Use Disorder](#)