

Recombinant Rat NDRG2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52556

Size: 10ug, 100ug

Protein Name: Protein NDRG2 (Antidepressant-related protein ADRG123) (N-myc downstream-regulated gene 2 protein) (NDRG1-related protein)

Synonym: NdrG2

UniProt ID: Q8VBU2

UniProt Link: www.uniprot.org/uniprotkb/Q8VBU2/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 371 AA

Molecular Weight: 41 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAELQEVQITEEKPLLPGQTPEAAKEAELARILLDQGQTHSVETPYGSVTFTVYGTPKPKRPAIFTY
HDVGLNYKSCFQPLFQFGDMQEIIQNFRVHVHDAPGMEEGAPVFPLGYQYPSQDQLADMIPCILQYL
NFSTIIGVGVGAGAYILSRNALNHPDTEGLVLINIDPNAKGWMDWAAHKLTGLTSSIPMILGHLFSQ
EELSGNSELIQKYRSLITHAPNLENIELYWNSYNNRRDLNFERGGEMTLKCPVMLVVGDAQPHEDAV
VECNSKLDPTQTSFLKMADSGGQPQLTQPGKLTEAFKYFVQGMGYMASSCMTRLRSRRTASLTSA
ASIDGSRSRRTLSQSSESGTLPSGPPGHTMEVSC

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Protein NDRG2 (Antidepressant-related protein ADRG123) (N-myc downstream-regulated gene 2 protein) (NDRG1-related protein) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Contributes to the regulation of the Wnt signaling pathway. Down-regulates CTNNB1-mediated transcriptional activation of target genes, such as CCND1, and may thereby act as tumor suppressor (By similarity). May be involved in dendritic cell and neuron differentiation.

Subcellular Localization: Cytoplasm . Cytoplasm, perinuclear region . Cell projection, growth cone.
Note=In neurons, seems to concentrate at axonal growth cone.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer- composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.