

Recombinant Rat NCOA3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52567

Size: 10ug, 100ug

Protein Name: Nuclear receptor coactivator 3 (NCoA-3) (EC 2.3.1.48) (Amplified in breast cancer-1 protein homolog) (AIB-1)

Synonym: Ncoa3, Aib1

UniProt ID: Q9EPU2

UniProt Link: www.uniprot.org/uniprotkb/Q9EPU2/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1082 AA

Molecular Weight: 115 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

IIRRCIQRRFFSLNDGQSWSQKRHYQEAYIHGHAETPVYRFSLADGTIVSAQTKSKLFRNPVTNDRHGF
VSTHFLQREQNGCRPNPILQDKGIRPPAAGCGMSLSPSQSVQMLGSRTYGVADPSNTGQMAGARY
GASSSVASLTPGQSLQSPSSYQNSYGLNMSSPPHGSPLGPNQQNIMISPRNRGSPKMASHQFS
PAAGVHSPMGSSGNTGSHSFSSSSLSALQAISEGVGTSLSTLSSPGPKLDNSPNMNINQPSKASS
QDSKSPLGLYCEQNPVESSVCPSNSRDPPVTKENKENSGEASETPRGPLESKGHKKLLQLLTCSSD
DRGHSSLTNSPLDSNCKDSSISVTSPSGVSSSTSGAVSSTSNMHGSLLQEKHRILHKLLQNGNSPAE
VAKITAEATGKDTSSSTASGGEGSVXQEQLSPXKKENNALLRYLLDRDDPSDVLAKELQPQADGGDS
KLSQCSCXTNPSSGQEKDPKIKTEEVSGDLNDLDAILDLTSSDFYNSPTNGSHPGAKQQMFAGPS
SLGLRSPQPVSVRPPYNRALSLSVSVGSVPPVKNVSAFPVLPKQPILAGNPRMMDSQENYGAN
MGGPNRNVPVNPTSSSGDWGLANSRASRMEPLASSPLGRAGGDYSAALPRPALGSSGPTLPLRSN
RLPGARPTLMLQMRAGEVPMGMGVSPYSPAVPSNQPGSWPEGMLSMEQGPHGAQNRPLLRNSL
DELLGPPSNPEGQSDERALLDQLHTLLSNTDATGLEEIDRALGIPELVSQGQALESKQDVFQGGQEA
VMMDQKAALYGQTYPAQGPPQLGGFHLQGQSPSLNSMMSQISQQGSFPLQGLHPRASMVRPRTN
TPKQLRMQLQQLRQGQFLNQSRQALEMKMESPTGAAMVRPMLQSQQAFFNAQMAAQKKRELM
NHHLQQQRMAMMMSQPQPQAFSPPPNVTASPSMDGVLAGSAMPQAPPQQFPYATNYGMGQPPE
PAFGRGSSPPSAMMSSRMGPSQNAMVQHPQTAPMYQSSEMKGWPSGNLARNGSFPPQQQFAPQ
ANPAAYNMVHMNSSGSHLGQMTMTPMPMSGMPMPGPDQKYC

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 Nuclear receptor coactivator 3 (NCoA-3) (EC 2.3.1.48) (Amplified in breast cancer-1 protein homolog) (AIB-1) 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: Nuclear receptor coactivator that directly binds nuclear receptors and stimulates the transcriptional activities in a hormone-dependent fashion. Plays a central role in creating a multisubunit coactivator complex, probably via remodeling of chromatin. Involved in the coactivation of different nuclear receptors, such as for steroids (GR and ER), retinoids (RARs and RXRs), thyroid hormone (TRs), vitamin D3 (VDR) and prostanoids (PPARs). Displays histone acetyltransferase activity. Also involved in the coactivation of the NF-kappa-B pathway via its interaction with the NFKB1 subunit (By similarity).

Subcellular Localization: Cytoplasm . Nucleus . Note=Mainly cytoplasmic and weakly nuclear. Upon TNF activation and subsequent phosphorylation, it translocates from the cytoplasm to the nucleus (By similarity).

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.