

Recombinant Human NCOA3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50701

Size: 10ug, 100ug

Protein Name: Nuclear receptor coactivator 3 (NCoA-3) (EC 2.3.1.48) (ACTR) (Amplified in breast cancer 1 protein) (AIB-1) (CBP-interacting protein) (pCIP) (Class E basic helix-loop-helix protein 42) (bHLHe42) (Receptor-associated coactivator 3) (RAC-3) (Steroid receptor coactivator protein 3) (SRC-3) (Thyroid hormone receptor activator molecule 1) (TRAM-1)

Synonym: NCOA3, AIB1, BHLHE42, RAC3, TRAM1

UniProt ID: Q9Y6Q9

UniProt Link: www.uniprot.org/uniprotkb/Q9Y6Q9/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1424 AA

Molecular Weight: 155 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSGLGENLDPLASDSRKRKLPDTPGQGLTCSGEKRRREQESKYIEELAEELISANLSDIDNFNVKPD
KCAILKETVRQIRQIKEQGKTISNDDDVQKADVSSTGQGVIDKDSLGPLLLQALDGLFVVRDGNIVF
VSENVYQYLQYKQEDLVNTSVYNILHEEDRKDFLKNLPKSTVNGVSWTNETQRQKSHTFNCRMLMK
TPHDILEDINASPEMRQRYETMQCFALSQPRAMMEEGEDLQSCMICVARRITTGERTFPSNPESFIT
RHDLSGKVVNIDTNSLRSSMRPGFEDIIRRCIQRFFSLNDGQSWSQKRHYQEAYLNGHAETPVYRFS
LADGTIVTAQTKSKLFRNPVTNDRHGFVSTHFLQREQNGYRPNPNPVGQGIRPPMAGCNSSVGGM
SMSPNQGLQMPSSRAYGLADPSTTGQMSGARYGGSSNIASLTPGPGMQSPSSYQNNNYGLNMSS
PPHGSPGLAPNQNNIMISPRNRGSPKIASHQFSPVAGVHSPMASSGNTGNHSFSSSSLSALQAISEG
VGTSLLSTLSSPGPKLDNSPNMNITQPSKVSNDQSKSPLGFYCDQNPVESSMCQSNRDLSDKES
KESSVEGAENQRGPLESKGHKLLQLLTCSSDDRGHSSLTNSPLDSSCKESSVSVTSPSGVSSSTS
GGVSSTSNMHGSLLEKHLRILHKLQNGNSPAEVAKITAEATGKDTSSITSCGDGNVVKQEQLSPKK
KENNALLRYLLDRDDPSDALSKELQPQVEGVDNKMSSQTSSTIPSSSQEKDPKIKTETSEEGSGDLD
NLDAILGDLTSSDFYNNSSISNGSHLGTQKQVFQGTNSLGLKSSQSVQSIRPPYNRAVSLDSPVSVG
SSPPVKNISAFPMLPKQPMGLGNPRMMDSQENYGSSMGGPNRNVTVTQTPSSGDWGLPNSKAGR
MEPMNSNSMGRPGGDYNTSLPRPALGGS IPTLPLRSNSIPGARPVLQQQQQMLQMRPGEIPMGMG
ANPYGQAAASNQLGSWPDGMLSMEQVSHGTQNRPLLRLNSLDDL VGPPSNLEGQSDERALLDQLH



TLLSNTDATGLEEIDRALGIPELVNQGQALEPKQDAFQGQEAAMMDQKAGLYGQTYPAQGPPMQ
GGFHLQGQSPSFNSMMNQMNQQGNFPLQGMHPRANIMRPTNTPKQLRMQLQQRLQGQQFLNQ
SRQALELKMENPTAGGAAMVRPMMQPQVSSQQGFLNAQMVAQRSRELLSHHFRQQRVAMMMQQ
QQQQQQQQQQQQQQQQQQQQQQQQQQQQQTQAFSPPPNVTASPSMDGLLAGPTMPQAPPQQFP
YQPNYGMGQQPDPAFGRVSSPPNAMMSSSRMGPSQNPMMQHPQAASIYQSSEMKGWPSGNLAR
NSSFSQQQFAHQGNPAVYSMVHMNGSSGHMGQMNMNPMMSGMPMPGPDQKYC

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) (ACTR) (Amplified in breast cancer 1 protein) (AIB-1) (CBP-interacting protein) (pCIP) (Class E basic helix-loop-helix protein 42) (bHLHe42) (Receptor-associated coactivator 3) (RAC-3) (Steroid receptor coactivator protein 3) (SRC-3) (Thyroid hormone receptor activator molecule 1) (TRAM-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, which probably acts 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.

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

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.