

Recombinant Human WNT3A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51062

Size: 10ug, 100ug

Protein Name: Protein Wnt-3a

Synonym: WNT3A

UniProt ID: P56704

UniProt Link: www.uniprot.org/uniprotkb/P56704/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 352 AA

Molecular Weight: 39 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAPLGYFLLLC SLKQALGSYPIWWSLAVGPQYSSLGSQPILCASIPGLVPKQLRFCRNYVEIMPSVAE
GIKIGIQECQHQRGRWNCTTVHDSLAI FGPVLDKATRESAFVHAIASAGVAFVTRSCAEGTAAIC
GCSSRHQGGSPGKGWKWGGCSEDI EFGGMVSREFADARENRPDARSAMNRHNN EAGRQAIASHM
HLKCKCHGLSGSCEVKTCWWSQPDFRAIGDFLKD KYDSASEMVVEKHRESRGWVETLRPRYTYFK
VPTERDLVYYEASPNFCEPNPETGSFGTRDRTC NVSSHGIDGCDLLCCGRGHNARAERRREKCRC
VFHWCCYVSCQECTRVYDVHTCK

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 Wnt-3a 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: Ligand for members of the frizzled family of seven transmembrane receptors (Probable). Functions in the canonical Wnt signaling pathway that results in activation of transcription factors of the TCF/LEF family (PubMed:20093360, PubMed:21244856, PubMed:24841207, PubMed:26902720). Required for normal embryonic mesoderm development and formation of caudal somites. Required for normal morphogenesis of the developing neural tube (By similarity). Mediates self-renewal of the stem cells at the bottom of intestinal crypts (in vitro) (PubMed:26902720).

Subcellular Localization: Secreted, extracellular space, extracellular matrix . Secreted .

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.