

Recombinant Human WNT3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51061

Size: 10ug, 100ug

Protein Name: Proto-oncogene Wnt-3 (Proto-oncogene Int-4 homolog)

Synonym: WNT3, INT4

UniProt ID: P56703

UniProt Link: www.uniprot.org/uniprotkb/P56703/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 355 AA

Molecular Weight: 40 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEPHLLGLLLGLLLGGTRVLGYPIWWSLALGQQYTSLGSQLLCGSIPGLVPKQLRFCRNYIEIMPS
VAEGVKLGIQECQHQRGRRWNCTTIDDSLAIFGPVLDKATRESAFVHAIASAGVAFVTRSCAEGT
STICGCDSHHKGPPGEGWKWGGCSEDAFGVLVSREFADARENRPDARSAMNKHNNNEAGRTTILD
HMHKCKCHGLSGSCEVKTCWWAQPFDFAIGDFLKDKYDSASEMVVEKHRESRGWVETLRAKYSL
FKPPTERDLVYYENSPNFCEPNPETGSFGTRDRTCNTVSHGIDGCDLLCCGRGHNTRTEKRKEKCH
CIFHWCCYVSCQECIRIYDVHTCK

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 Proto-oncogene Wnt-3 (Proto-oncogene Int-4 homolog) 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:26902720). Required for normal gastrulation, formation of the primitive streak, and for the formation of the mesoderm during early embryogenesis. Required for normal formation of the apical ectodermal ridge (By similarity). Required for normal embryonic development, and especially for limb development (PubMed:14872406).

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.