

Recombinant Rat WNT4 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52590

Size: 10ug, 100ug

Protein Name: Protein Wnt-4

Synonym: Wnt4, Wnt-4

UniProt ID: Q9QXQ5

UniProt Link: www.uniprot.org/uniprotkb/Q9QXQ5/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 351 AA

Molecular Weight: 39 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSPRSCLRSLRLLVFAVFSAASNWLYLAKLSSVGSISEEETCEKLKGLIQRQVQMCKRNLEVMDSV
RHGAQLAIEECQYQFRNRRWNCSTLDSLPVFGKVVTQGTREAAFVYAISSAGVAFVTRACSSGDL
EKCGCDRTVHGVSPQGFQWSGCSDNIAYGVAFSQSFVDVRERSKGASSSRALMNLHNNEAGRKAI
LTHMRVECKCHGVSGSCEVKTCWRAVPPFRQVGHALKEKFDGATEVEPRRVGSSRALVPRNAQFK
PHTDEDLVYLEPSPDFCEQDMRSGVLGTRGRTCNKTSKAIDGCELLCCGRGFHTAHVELAERCGCR
FWWCCFVKCRQCQRLVEMHTCR

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-4 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. Plays an important role in the embryonic development of the urogenital tract and the lung. Required for normal mesenchyme to epithelium transition during embryonic kidney development. Required for the formation of early epithelial renal vesicles during kidney development. Required for normal formation of the Mullerian duct in females, and normal levels of oocytes in the ovaries. Required for normal down-regulation of 3 beta-hydroxysteroid dehydrogenase in the ovary. Required for normal lung development and for normal patterning of tracheal cartilage rings.

Subcellular Localization: Secreted, extracellular space, extracellular matrix.

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.