

Recombinant Mouse WNT4 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51325

Size: 10ug, 100ug

Protein Name: Protein Wnt-4

Synonym: Wnt4, Wnt-4

UniProt ID: P22724

UniProt Link: www.uniprot.org/uniprotkb/P22724/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 351 AA

Molecular Weight: 39 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSPRSCLRSLRLLVFAVFSAAASNWLYLAKLSSVGSISEEETCEKLKGLIQRQVQMCKRNLEVMDSV
RRGAQLAIEECQYQFRNRRWNCSTLDSLPVFGKVVTQGTREAAFVYAISSAGVAFVTRACSSGEL
EKCGCDRTVHGVSPQGFQWSGCSDNIAYGVAFSQSFDVVRERSKGASSSRALMNLHNNEAGRKA
LTHMRVECKCHGVSGSCEVKTCWRAVPPFRQVGHALKEKFDGATEVEPRRVGSSRALVPRNAQFK
PHTDEDLVYLEPSPDFCEQDIRSGVLGTRGRTCNKTSKAIDGCELLCCGRGFHTAQVELAERCGCR
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 (Probable). Plays an important role in the embryonic development of the urogenital tract and the lung (PubMed:16054034, PubMed:17537789, PubMed:19830824, PubMed:26321050, PubMed:7990960, PubMed:9989404). Required for normal mesenchyme to epithelium transition during embryonic kidney development (PubMed:16054034, PubMed:17537789, PubMed:19830824, PubMed:7990960). Required for the formation of early epithelial renal vesicles during kidney development (PubMed:16054034). Required for normal formation of the Mullerian duct in females, and normal levels of oocytes in the ovaries (PubMed:19830824, PubMed:9989404). Required for normal down-regulation of 3 beta-hydroxysteroid dehydrogenase in the ovary (PubMed:9989404). Required for normal lung development and for normal patterning of tracheal cartilage rings (PubMed:26321050).

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.