

Recombinant Mouse WNT9B Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51156

Size: 10ug, 100ug

Protein Name: Protein Wnt-9b (Protein Wnt-14b) (Protein Wnt-15)

Synonym: Wnt9b, Wnt14b, Wnt15

UniProt ID: O35468

UniProt Link: www.uniprot.org/uniprotkb/O35468/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 359 AA

Molecular Weight: 39 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRPAPALALAALCLLVLPAAAAAAAYFGLTGREVLTPFPGLGTAAAPAQAGAHKQCDLLKLSRRQK
QLCRREPLAETLRDAAHLGLLECQFQFRQERWNCSEGRGTGLLQRGFKETAFLYAVSAAALTHAL
ARACSAGRMERCTCDDSPGLESRQAWQWGVCGDNLKYSTKFLSNFLGPKRGSKDLRARADAHNT
HVGIAVKSGRLTTCKCHGVSGSCAVRTCWKQLSPFRETGQVLKRLRYDTAVKVSSATNEALGRLEL
WAPAKPGGPAKGLAPRPGDLVYMEDSPSFCRPSKYSPGTAGRVCSDSSCSLCCGRGYDTQSR
MVFVSHCQVQWCCYVECQQAQQLVYTCKR

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-9b (Protein Wnt-14b) (Protein Wnt-15) 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/beta-catenin signaling pathway (PubMed:16054034, PubMed:17537789, PubMed:22461561). Required for normal embryonic kidney development, and for normal development of the urogenital tract, including uterus and part of the oviduct and the upper vagina in females, and epididymis and vas deferens in males (PubMed:16054034). Activates a signaling cascade in the metanephric mesenchyme that induces tubulogenesis (PubMed:16054034, PubMed:17537789). Acts upstream of WNT4 in the signaling pathways that mediate development of kidney tubules and the Muellerian ducts (PubMed:16054034). Plays a role in craniofacial development and is required for normal fusion of the palate during embryonic development (PubMed:16054034, PubMed:22461561, PubMed:25257647).

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.