

Recombinant Mouse WNT9A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51803

Size: 10ug, 100ug

Protein Name: Protein Wnt-9a (Protein Wnt-14)

Synonym: Wnt9a, Wnt14

UniProt ID: Q8R5M2

UniProt Link: www.uniprot.org/uniprotkb/Q8R5M2/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 365 AA

Molecular Weight: 40 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLDGSLARWLAAAFGLTLLLAALRPSAAYFGLTGSEPLTILPLTLETEAAAQAHYKACDRLKLERKQ
RRMCRRDPGVAETLVEAVSMSALECQYQFRFERWNCTLEGRYRASLLKRGFKETAFLYAISSAGLT
HALAKACSAGRMRCTCDEAPDLENREAWQWGGCGDNLKYSSKFVKEFLGRRSSKDLRARVDFH
NNLVGVKVIKAGVETTCKCHGVSGSCTVRTCWRQLAPFHEVGKHLKHKYETSLKVGSTTNEATGEA
GAISPPRGRASGSGGGDPLPRTPELVHLDSPSFCLAGRFSPGTAGRRCHREKNCESICCGRGHN
TQSRVVTRPCQCQVRWCCYVECRQCTQREEVYTCKG

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-9a (Protein Wnt-14) 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 (By similarity). Required for normal timing of IHH expression during embryonic bone development, normal chondrocyte maturation and for normal bone mineralization during embryonic bone development (PubMed:16818445). Plays a redundant role in maintaining joint integrity (PubMed:16818445).

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.