

Recombinant Human WN10A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51054

Size: 10ug, 100ug

Protein Name: Protein Wnt-10a

Synonym: WNT10A

UniProt ID: Q9GZT5

UniProt Link: www.uniprot.org/uniprotkb/Q9GZT5/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 417 AA

Molecular Weight: 46 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGSAHPRPWLRLRPQPQPRPALWVLLFFLLLLAAAMP RSAPNDILDRLPPEPVLNANTVCLTL PGL
SRRQMEVCVRHPDVAASAIQGIQIAIHECQHQRDQRWNCSSLETRNKIPYESPIFSRGFRESAFAY
AIAAAGVVHAVSNACALGKLKACGC DASRRGDEEAFRRKLHRLQLDALQRGKGLSHGVPEHPALPT
ASPGLQDSWEWGGCSPDMGFGERFSKDFLDSREPHRDIHARMRLHNNRVGRQAVMENMRRKCK
CHGTSGSCQLKTCWQVTPEFRTVGALLRSRFRH RATLIRPHNRNGGQLEPGPAGAPSPAPGAPGPR
RRASPADLVYFEKSPDFCEREPRLDSAGTVGR LCNKSSAGSDGCGSMCCGRGHNILRQTRSERCH
CRFWCCFVVCEE CRITEWVSVCK

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-10a 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). Plays a role in normal ectoderm development (PubMed:17847007, PubMed:28589954). Required for normal tooth development (PubMed:17847007, PubMed:28589954, PubMed:29178643). Required for normal postnatal development and maintenance of tongue papillae and sweat ducts (PubMed:28589954). Required for normal proliferation of basal cells in tongue filiform papillae, plantar epithelium and sweat ducts. Required for normal expression of keratins in tongue papillae (By similarity). Required for normal expression of KRT9 in foot plant epithelium (PubMed:28589954). Required for normal hair follicle function (PubMed:28589954).

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.