

# Recombinant Human WN10B Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP51055

Size: 10ug, 100ug

Protein Name: Protein Wnt-10b (Protein Wnt-12)

Synonym: WNT10B, WNT12

UniProt ID: O00744

UniProt Link: [www.uniprot.org/uniprotkb/O00744/entry](http://www.uniprot.org/uniprotkb/O00744/entry)

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 389 AA

Molecular Weight: 43 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MLEEPRPRPPPSGLAGLLFLALCSRALSNELGLKLPGEPPLTANTVCLTSLGLSKRQLGLCLRNPDV  
TASALQGLHIAVHECQHQLRDQRWNC SALEGGGRLPHHSAILKRGFRESAFSFSMLAAGVMHAVAT  
ACSLGKLVSCGCGWKSGEQDRLRAKLLQLQALSRGKSFP HSLPSPGPGSSPSPGPQDTWEWGG  
CNHDMDFG EKFSRDFLDSREAPRDIQARMRIHNNRVGRQVVTENLKRKCKCHGTSGSCQFKTCWR  
AAPEFRAVGAALRERLGRAIFIDTHNRNSGAFQPRLRPRRLSGELVYFEKSPDFCERDPTMGSPGT  
RGRACNKTSRLLDGCGSLCCGRGHNVLRQTRVERCHCRFWCCYVLCDECKVTEWVNVCK

## 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-10b (Protein Wnt-12) 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:** Member of the Wnt ligand gene family that encodes for secreted proteins, which activate the Wnt signaling cascade. Specifically activates canonical Wnt/beta-catenin signaling and thus triggers beta-catenin/LEF/TCF-mediated transcriptional programs. Involved in signaling networks controlling stemness, pluripotency and cell fate decisions. Acts in the immune system, mammary gland, adipose tissue, bone and skin.

**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.