

Recombinant Human WNT1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51056

Size: 10ug, 100ug

Protein Name: Proto-oncogene Wnt-1 (Proto-oncogene Int-1 homolog)

Synonym: WNT1, INT1

UniProt ID: P04628

UniProt Link: www.uniprot.org/uniprotkb/P04628/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 370 AA

Molecular Weight: 41 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGLWALLPGWVSATLLLALAALPAALANSSGRWWGIVNVASSTNLLTDSKSLQLVLEPSLQLLSRK
QRRIRQNPGILHSVSGGLQSAVRECKWQFRNRRWNCPTAPGPHLFGKIVNRGCRETAFIFITSAG
VTHSVARSCSEGSIESCTCDYRRRGPGPDWHWGGCSDNIDFGRLFGREFVDSGEKGRDLRFLM
NLHNNEAGRRTTVFSEMRQECKCHGMSGCTVRTCWMRLPTLRAVGDVLRDRFDGASRVLYGNRG
SNRASRAELLRLPEPDAHKPPSPHDLVYFEKSPNFCTYSGRLGTAGTAGRACNSSSPALDGCELL
CCGRGHRTRTQRVTERCNCTFWCCHVSCRNCTHTRVLHECL

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 Proto-oncogene Wnt-1 (Proto-oncogene Int-1 homolog) 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). Acts in the canonical Wnt signaling pathway by promoting beta-catenin-dependent transcriptional activation (PubMed:23499309, PubMed:23656646, PubMed:26902720, PubMed:28528193). In some developmental processes, is also a ligand for the coreceptor RYK, thus triggering Wnt signaling (By similarity). Plays an essential role in the development of the embryonic brain and central nervous system (CNS) (By similarity). Has a role in osteoblast function, bone development and bone homeostasis (PubMed:23499309, PubMed:23656646).

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.