

Recombinant Mouse WNT2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51318

Size: 10ug, 100ug

Protein Name: Protein Wnt-2 (INT-1-related protein) (IRP)

Synonym: Wnt2, Irp, Wnt-2

UniProt ID: P21552

UniProt Link: www.uniprot.org/uniprotkb/P21552/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 360 AA

Molecular Weight: 40 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MNVPLGGIWLWLPLLLTWLTPEVSSSWWYMRATGGSSRMCDNVPGLVSRQRQLCHRHPDVMRA
IGLGVAEWTAECQHQRQHRWNCNTLDRDHSFLFGRVLLRSSRESAFVYAISSAGVVFAITRACSQG
ELKSCSCDPKKKGSADSKGTFDWGGCSDNIDYGKIFARAFVDAKERKKGKDARALMNLHNNRAGR
KAVKRFLKQECKCHGVSGSCTLRTCWLAMADFRKTGDYLWRKYNGAIQVVMNQDGTGFTVANKRF
KKPTKNDLVYFENSPDYCIRDREAGSLGTAGRVCNLTSGMDSCEVMCCGRGYDTSHVTRMTKCE
CKFWWCCAIVRCQDCLEALDVHTCKAPKSADWATPT

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-2 (INT-1-related protein) (IRP) 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. Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:19686689). Functions as an upstream regulator of FGF10 expression (PubMed:19686689). Plays an important role in embryonic lung development (PubMed:19686689). May contribute to embryonic brain development by regulating the proliferation of dopaminergic precursors and neurons (PubMed:20018874).

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.