

Recombinant Rat FZD5 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52547

Size: 10ug, 100ug

Protein Name: Frizzled-5 (Fz-5)

Synonym: Fzd5

UniProt ID: Q8CHL0

UniProt Link: www.uniprot.org/uniprotkb/Q8CHL0/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 585 AA

Molecular Weight: 64 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MARPDPSAPPSLLLLLLAQLVGRAAAASKAPVCQEITVPMCRGIGYNLTHMPNQFNHDTQDEAGLEV
HQFWPLVEIHCSPDLRFFLCSMYTPICLPDYHKPLPPCRSVCERAKAGCSPLMRQYGFAPPERMSC
DRLPVLGGDAEVL CMDYNRSEATTASPKSFPAKPTLPGPPGAPSSGGECPSGGPSVCTCREPFVPI
LKESHPLYNKVRTGQVPNCAVPCYQPSFSPDERTFATFWIGLWSVLCFISTSTTVATFLIDMERFRYP
ERPIIFLSACYLCVSLGFLVRLVVGHASVACSREHSHIH YETTGPALCTVVFLLVYFFGMASSIWWWIL
SLTWFLAAGMKWGN EAIAGYAQYFHLAAWLIPSVKSITALALSSVDGDPVAGVCYVGNQNLNSLRG
FVLGPLVLYLLVGTFLLAGFVSLFRIRSVIKQGGTKTDKLEKLMIRIGIFTLLYTPASIVVACYLYEQH
YRESWEAALTCACPGSDAGQPRAKPEYWVLM LKYFMCLVVGITSGVWIWSGKTLESWRRFTSRCC
CSSRRGHKSGGAMVAGDYAEASAALTGRTGPPGPAAAYHKQVSLSHV

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 Frizzled-5 (Fz-5) 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: Receptor for Wnt proteins (PubMed:20530549). Functions in the canonical Wnt/beta-catenin signaling pathway (PubMed:20530549). In vitro activates WNT2, WNT10B, WNT5A, but not WNT2B or WNT4 signaling (By similarity). In neurons, activation by WNT7A promotes formation of synapses (PubMed:20530549). May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues (Probable). Plays a role in yolk sac angiogenesis and in placental vascularization (By similarity). Plays a role in ocular development (By similarity).

Subcellular Localization: Cell membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein . Synapse . Perikaryon . Cell projection, dendrite . Cell projection, axon . Note=Localized at the plasma membrane and also found at the Golgi apparatus.

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.