

Recombinant human Frizzled-10 protein

Catalog Number: ATGP4151

PRODUCT INFORMATION

Expression system

HEK293

Domain

21-225aa

UniProt No.

Q9ULW2

NCBI Accession No.

NP_009128.1

Alternative Names

frizzled class receptor 10, CD350, FZ-10, Fz10, FzE7, hFz10, frizzled-10, FZD10

PRODUCT SPECIFICATION

Molecular Weight

50kDa (444aa)

Concentration

0.5mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Frizzled-10, also known as CD350, is a member of the G-protein coupled receptor Fz/Smo family. Frizzled-10 is expressed during embryogenesis in the primitive streak, dorsal neural tube, developing brain, limb bud, and airway epithelium. In the adult, it is expressed in placenta, gastric glands, and colon and renal tubule epithelial cells. It is a receptor for Wnt proteins and up-regulated in some cancers and transformed cell lines. Frizzled-10

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associates with LRP5 to transduce Wnt 7a and Wnt 7b signals, resulting in the stabilization of cytoplasmic beta-catenin. Expression of this intronless gene is significantly up-regulated in two cases of primary colon cancer. It may also be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis or in differentiated tissues. Recombinant human Frizzled-10, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ISSMDMERPG DGKQCPIEIP MCKDIGYNMT RMPNLMGHEN QREAAIQLHE FAPLVEYGCH GHLRFFLCSL YAPMCTEQVS
TPIPACRVMC EQARLKCSP I MEQFNFKWPD SLDCRKLPNK NDPNYLCMEA PNNGSDEPTR GSGLFPPLFR PQRPHSAQEH
PLKDGGPGRG GCDNPGKFHH VEKSASCAPL CTPGVVYWS REDKR<LEPKS CDKTHTCPPC PAPELLGGPS VLFPPKPKD
TLMISRTPEV TCVVVDVSH E DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP
APIEKTISKA KGQPREPVY TLPPSRDEL T KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK
LTVDKSRWQQ GNVFSCVMH EALHNHYTQK SLSLSPGKHH HHHH>

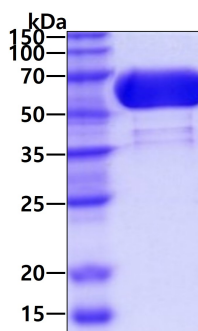
General References

Yasuhiko K., et al, (2000) Mechanisms of Dev. 91:375-378.

Junya M., et al, (2000) Biophys. Res. Commun. 278:377-384.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain