

Recombinant Human FZD2 protein, Fc-tagged

Cat. No. FZD2-321H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FZD2 protein (Gln24-Pro190), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	167
Description	Frizzled-2 (FZD2) is also known as FzE2, which belongs to the G-protein coupled receptor Fz/Smo family. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. FZD2 contains one FZ (frizzled) domain. FZD2 may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. The Lys-Thr-X-X-X-Trp motif of FZD2 interacts with the PDZ domain of Dvl (Disheveled) family members and is involved in the activation of the Wnt/beta-catenin signaling pathway.
Form	Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 44.4 kDa. The protein migrates as 50-62 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	FZD2
Official Symbol	FZD2
Synonyms	FZD2; frizzled family receptor 2; frizzled (Drosophila) homolog 2, frizzled 2, seven transmembrane spanning receptor, frizzled homolog 2 (Drosophila); frizzled-2; frizzled homolog 2; frizzled 2, seven transmembrane spanning receptor; Fz2; fz-2; fzE2; hFz2
Gene ID	2535
mRNA Refseq	NM_001466
Protein Refseq	NP_001457
MIM	600667

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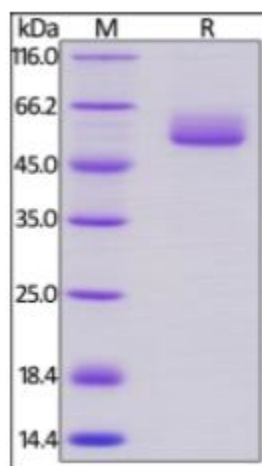
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UniProt ID

Q14332

SDS-PAGE of FZD2-
321H



Human Frizzled-2, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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