

Recombinant Human FZD4 protein, Fc-tagged

Cat. No. FZD4-382H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FZD4 (Phe37-Glu180) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Phe37-Glu180
Description	Frizzled-4 (FZD4) is also known as FzE4, CD344, 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. FZD4 contains one FZ (frizzled) domain. FZD4 may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. FZD4 interacts with MAGI3 and norrin (NDP).
Predicted N Terminal	Phe37
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 42.9 kDa. The protein migrates as 50-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per µg 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 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	FZD4
Official Symbol	FZD4
Synonyms	FZD4; frizzled family receptor 4; EVR1, exudative vitreoretinopathy 1, frizzled (Drosophila) homolog 4, frizzled 4, seven transmembrane spanning receptor, frizzled homolog 4 (Drosophila); frizzled-4; CD344; hFz4; frizzled homolog 4; WNT receptor frizzled-4; frizzled 4, seven transmembrane spanning receptor; EVR1; FEVR; Fz-4; FzE4; GPCR; FZD4S; MGC34390
Gene ID	8322
mRNA Refseq	NM_012193
Protein Refseq	NP_036325

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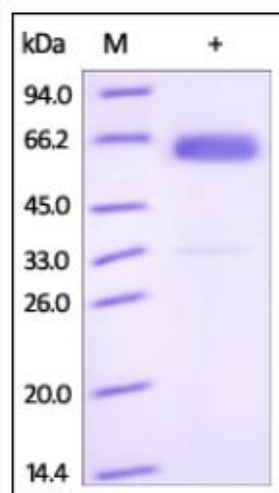
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MIM 604579

UniProt ID Q9ULV1

SDS-PAGE of FZD4-382H



Human Frizzled-4, 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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