

## Recombinant Human FZD5 protein, Fc-tagged

**Cat. No.** FZD5-167H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human FZD5 (Ala27-Pro167) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Ala27-Pro167
<b>Description</b>	Frizzled-5 (FZD5) is also known as FzE5, 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. FZD5 contains one FZ (frizzled) domain. FZD5 may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. FZD5 interacts specifically with Wnt5A to induce the beta-catenin pathway. FZD5 interacts with GOPC.
<b>Predicted N Terminal</b>	Ala27
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 42.6 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;            -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
<b>Reconstitution</b>	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

<b>Gene Name</b>	FZD5
<b>Official Symbol</b>	FZD5
<b>Synonyms</b>	FZD5; frizzled family receptor 5; C2orf31, chromosome 2 open reading frame 31, frizzled (Drosophila) homolog 5, frizzled 5, seven transmembrane spanning receptor, frizzled homolog 5 (Drosophila); frizzled-5; DKFZP434E2135; HFZ5; fz-5; fzE5; Wnt receptor; seven-transmembrane receptor frizzled-5; frizzled 5, seven transmembrane spanning receptor; C2orf31; MGC129692; DKFZp434E2135
<b>Gene ID</b>	7855
<b>mRNA Refseq</b>	NM_003468
<b>Protein Refseq</b>	NP_003459

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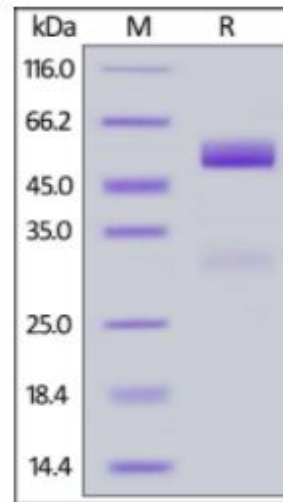
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MIM 601723

UniProt ID Q13467

**SDS-PAGE of FZD5-167H**



Human Frizzled-5, 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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