

## Active Recombinant Mouse Fzd10 protein, Fc-tagged

Cat. No. Fzd10-276M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Fzd10(Ile22-Phe166) fused with Fc region of Mouse IgG2a at C-terminal was expressed in NS0.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	22-166 a.a.
<b>Description</b>	<p>Frizzled-10, also known as CD350, is a 68 kDa seven pass transmembrane glycoprotein in the frizzled family of Wnt receptors. The N-terminal extracellular region of Frizzled-10 contains a cysteine-rich domain that comprises the Wnt binding domain and mediates receptor oligomerization. The C-terminal cytoplasmic tail contains a PDZ-interaction motif. Within the cysteine-rich domain, human Frizzled-10 shares 94% and 99% aa sequence identity with human and rat Frizzled-10, respectively. Frizzled-10 is expressed during embryogenesis in the primitive streak, dorsal neural tube, developing brain, limb bud, and airway epithelium. It is induced by Shh and colocalizes with Shh and Wnt-7a in the neural tube. In the adult, Frizzled-10 is expressed in placenta, gastric glands, and colon and renal tubule epithelial cells. Frizzled-10 associates with LRP5 and transduces Wnt-1, -7a, -7b, and -8 signals, resulting in the stabilization of cytoplasmic beta-Catenin. It is important for the differentiation of sensory neurons. Frizzled-10 is also up-regulated in some cancers and transformed cell lines. It binds hypoxia inducible gene 2, which promotes oncogenic Wnt signaling and functions as an autocrine growth factor for renal cell</p>

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	carcinomas.
<b>Predicted N Terminal</b>	Ile22
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Bio-activity</b>	Measured by its ability to bind biotinylated recombinant mouse Wnt-3a in a functional ELISA with an ED50 of 10-60 ng/mL.
<b>Molecular Mass</b>	Predicted Molecular Mass: 44 kDa SDS-PAGE: 53-61 kDa, reducing conditions
<b>Endotoxin</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Reconstitution</b>	Reconstitute at 200 µg/mL in PBS.

## GENE INFORMATION

<b>Gene Name</b>	Fzd10 frizzled homolog 10 (Drosophila) [ Mus musculus ]
<b>Official Symbol</b>	Fzd10
<b>Synonyms</b>	FZD10; frizzled homolog 10 (Drosophila); frizzled-10; Fz-10;

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Gene ID	93897
mRNA Refseq	NM_175284
Protein Refseq	NP_780493

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