

Active Recombinant Mouse Fzd10 protein, Fc-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Fzd10(Ile22-Phe166) fused with Fc region of Mouse IgG2a at C-terminal was expressed in NS0.
Species	Mouse
Source	Mammalian Cells
ProteinLength	22-166 a.a.
Description	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

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	carcinomas.
Predicted N Terminal	Ile22
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured by its ability to bind biotinylated recombinant mouse Wnt-3a in a functional ELISA with an ED50 of 10-60 ng/mL.
Molecular Mass	Predicted Molecular Mass: 44 kDa SDS-PAGE: 53-61 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	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.
Reconstitution	Reconstitute at 200 µg/mL in PBS.

GENE INFORMATION

Gene Name	Fzd10 frizzled homolog 10 (Drosophila) [Mus musculus]
Official Symbol	Fzd10
Synonyms	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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