

Active Recombinant Mouse Frizzled Homolog 8 (Drosophila), Fc-tagged

Cat. No. Fzd8-593M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fzd8 protein was expressed in Murine myeloma cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Mouse Frizzled-8 (Ala25-Pro173)&(Ala28-Pro173)(N-terminus).
Species	Mouse
Source	Mammalian Cells
Protein Length	25-173 a.a.
Description	Fzd8 is one of at least ten seven transmembrane (7TM) glycoprotein of the Frizzled family of Wnt receptors. Frizzled proteins are thought to be G-protein-coupled. Wnt engagement, with low density lipoprotein receptor related proteins LRP-5 or LRP-6 acting as co-receptors stabilizes β -catenin and promotes gene transcription that is important in development and tissue maintenance.
Form	Supplied as a 0.2 μ m filtered solution in PBS.
N-terminal Sequence	Ala25 & Ala28
Molecular Weight	43 kDa
Activity	Measured by its ability to interfere with the axis-inducing activity of Xwnt-8 mRNA in early Xenopus embryos. In a population of embryos, addition of 1 ng of mouse

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Frizzled8/ FcChimera protein per embryo resulted in 50-100% reduction in the number of secondary axes produced by 10-20 pg of Xwnt-8 mRNA. Also measured by its ability to bind biotinylated rmWnt-5a in a functional ELISA with an estimated $KD < 1$ nM.

Endotoxin Level <1.0 EU per 1 µg of the protein by the LAL method.

SDS-PAGE 59-60 kDa, reducing conditions

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Reconstitution Reconstitute at 250 µg/mL in sterile PBS.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name Fzd8 frizzled homolog 8 (Drosophila) [Mus musculus]

Official Symbol Fzd8

Synonyms Fzd8; frizzled homolog 8 (Drosophila); Fz8; frizzled-8; Fz-8; mFz8

Gene ID 14370

mRNA Refseq NM_008058

Protein Refseq NP_032084

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UniProt ID	Q61091
Chromosome Location	18
Pathway	Basal cellcarcinoma; Class B/2 (Secretin family receptors); GPCR ligand binding; HTLV-I-infection; Melanogenesis; Pathways in cancer; Signal Transduction; Signalingby GPCR; Wnt Signaling Pathway; Wnt signaling network
Function	G-proteincoupled receptor activity; PDZ domain binding; Wnt-activated receptoractivity; Wnt-protein binding
PDBrendering based on 1ijy.	