

Active Recombinant Human Frizzled Family Receptor 8, Fc-tagged

Cat. No. FZD8-597H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FZD8 protein was expressed in Chinese Hamster Ovary cell line with the Fc part of Human IgG1 Pro100-Lys330 (C-terminus) and Human Frizzled-8 Ala25-Pro172(N-terminus).
Species	Human
Source	CHO
Protein Length	25-172 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	43.3 kDa
Activity	Measured by its binding ability in a functional ELISA. In a 100 μ L reaction mixture containing biotinylated rmWnt-3a or rmWnt-5a at 50-100 ng/mL and

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rhFrizzled8/Fc Chimera dilutions at 0.1-8,000 ng/mL, the concentration of rhFrizzled8/FcChimera that produces 50% of the optimal binding response is found to be approximately 7-28 ng/mL.

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

SDS-PAGE 55-65 kDa, reducing conditions

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

Reconstitution Reconstitute at 500 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 family receptor 8 [Homo sapiens]

Official Symbol FZD8

Synonyms FZD8; frizzled family receptor 8; FZ-8; hFZ8; frizzled (Drosophila) homolog 8; frizzled 8, seven transmembrane spanning receptor; frizzled homolog 8 (Drosophila); OTTHUMP00000019454; hFz8; Fz-8; frizzled-8; frizzled homolog 8

Gene ID 8325

mRNA Refseq NM_031866

Protein Refseq NP_114072

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MIM	606146
UniProt ID	Q9H461
Chromosome Location	10p11.2
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.	