Recombinant Human FZD8, Fc-tagged therapeutic protein

Cat. No. FZD8-P012H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FZD8, HIgG1 Fc-tagged therapeutic protein is a fusion protein that consists of a portion of the Frizzled 8 receptor from the Wnt pathway fused to the Fc domain of a human IgG1. It selectively binds Wnt ligands that are activators of Wnt signaling. FZD8-Fc has shown potent anti-cancer stem cell effects and induces tumor cell differentiation in preclinical studies.
Species	Human
Description	This intronless gene is a member of the frizzled gene family. Members of this family encode seven-transmembrane domain proteins that are receptors for the Wingless type MMTV integration site family of signaling proteins. Most frizzled receptors are coupled to the beta-catenin canonical signaling pathway. This gene is highly expressed in two human cancer cell lines, indicating that it may play a role in several types of cancer. The crystal structure of the extracellular cysteine-rich domain of a similar mouse protein has been determined.
Endotoxin	< 1.0 EU per μg of the protein
Purity	>95%

GENE INFORMATION

Gene Name	FZD8 frizzled family receptor 8 [Homo sapiens]
Official Symbol	FZD8

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Synonyms	FZD8; frizzled family receptor 8; frizzled (Drosophila) homolog 8 , frizzled 8, seven transmembrane spanning receptor , frizzled homolog 8 (Drosophila); frizzled-8; frizzled homolog 8; frizzled 8, seven transmembrane spanning receptor; FZ-8; hFZ8;
Gene ID	8325
mRNA Refseq	NM_031866
Protein Refseq	NP_114072
MIM	606146
UniProt ID	Q9H461
Chromosome Location	10p11.2
Pathway	Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Melanogenesis, organism-specific biosystem;
Function	G-protein coupled receptor activity; PDZ domain binding; Wnt-activated receptor activity; Wnt-activated receptor activity; Wnt-protein binding; receptor activity; receptor binding; signal transducer activity;

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