

## FZD1 Human

**Description:** Frizzled-1 Human Recombinant produced in HEK293 cells, corresponding to the extracellular region of mature Human Frizzled-1 (amino acids 112-228) and fused to the Fc region of Human IgG1, having an MW of 46kDa. Frizzled-1 is purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-823

For research use only.

**Synonyms:** Frizzled-1, Fz-1, hFz1, FzE1, FZD1, FLJ95923, DKFZp564G072.

**Source:** HEK293 (Human Embryonic Kidney cell line).

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** DHGYCQPISI PLCTDIAYNQ TIMPNLLGHT NQEDAGLEVH  
QFYPLVKVQC SAELKFFLCS MYAPVCTVLE QALPPCRSLC ERARQGCEAL MNKFGFQWPD  
TLKCEKFPVH GAGELCVENL YFQGGSGTKL DKTHTCPPCP APELLGGPSV FLFPPKPKDT  
LMISRTPEVT CVVVDVSHGD PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH  
QDWLNGKEYK CK

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

The protein was lyophilized without any additives.

**Stability:**

Lyophilized FZD1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FZD1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized FZD1 in sterile 1xPBS not less than 100

**Introduction:**

Frizzled gene family members encode 7-transmembrane domain proteins which are receptors for Wnt signaling proteins. The FZD1 protein includes a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, 7 transmembrane domains, and a C-terminal PDZ domain-binding motif. The FZD1 transcript is expressed in the adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in the fetal lung and kidney.

**Biological Activity:**

The KD (equilibrium binding constant) of FZD1 Human was measured at less than 10nM with human Wnt3a as the ligand. The measurements were performed by the ForteBio Octet optical biosensor instrument.

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