

## Recombinant Mouse Fzd4

**Cat. No.** Fzd4-8308M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Fzd4 was expressed in NSO Cells.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>Description</b>	<p>Frizzled-4 (FZD4), also known as CD344 and EVR1, is a transmembrane glycoprotein of the Frizzled family within the G-protein coupled receptor superfamily. Members of this family encode seven transmembrane domain proteins that function as receptors for Wnt proteins. They can activate canonical Wnt/beta-catenin signaling as well as planar cell polarity and calcium flux pathways. FZD4 is particularly important in angiogenic Wnt pathway signaling and it is expressed in a variety of tissues. FZD4 is unusual in that it binds to Norrin, a non-wnt ligand, in addition to binding Wnt ligands. Mutations producing loss of function of either FZD4 or Norrin, result in blindness due to familial exudative vitreoretinopathy (FEVR). FZD4 also functions as a ligand-receptor pair to control vascular development in the retina and inner ear. FZD4 expression may play a critical role in responses to Wnt signaling in the tumor microenvironment.</p>
<b>Form</b>	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
<b>Molecular Mass</b>	The predicted molecular weight of Recombinant Mouse Frizzled-4 is Mr 43 kDa

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(monomer). However, the actual molecular weight as observed by migration on SDS-PAGE is Mr 55-50 kDa.

**AA Sequence**

```
fgde eerrcdpiri amcqnlgynv tkmpnlvghe lqtdaelqlt tftpliqygc ssqlqfflcs vyvpmcteki
nipigpcggm clsvkrcep vlrefgfawp dtlncskfpp qndhnhmcmc gpgdeevlp hktpiqpgee
iegrmdpksk dkthtppcp apellggpsv flfppkpkdt lmisrtpevt cvvvdvshed pevknwyvd
gvevhnaktk preeqynsty rvsvltvlh qdwlngkeyk ckvsnkappa piektiskak gqprepvyt
lppsrdeitk nqvsltclvk gfypsdiave wesngqpenn ykttppvlds dgsfflyskl tvdksrwqqg
nvfscsvmhe alhnhytqks lslspgk
```

**Endotoxin** <1.0 eu/μg="" as="" determined="" by="" the="" lal="">

**Purity** >95% by SDS-PAGE and analyzed by silver stain.

**Storage** This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

## GENE INFORMATION

**Gene Name** [Fzd4 frizzled homolog 4 \(Drosophila\) \[ Mus musculus \]](#)

**Official Symbol** Fzd4

**Synonyms** FZD4; frizzled homolog 4 (Drosophila); frizzled-4; fz-4; mFz4; Fz4;

**Gene ID** [14366](#)

**mRNA Refseq** [NM\\_008055](#)

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**Protein Refseq**

NP\_032081

**Pathway**

Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; ESC Pluripotency Pathways, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem;

**Function**

G-protein coupled receptor activity; PDZ domain binding; PDZ domain binding; Wnt-activated receptor activity; Wnt-activated receptor activity; Wnt-protein binding; Wnt-protein binding; cytokine binding; cytokine binding; protein binding; protein heterodimerization activity; protein homodimerization activity; receptor activity; signal transducer activity; transmembrane signaling receptor activity;

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