

RP00204

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# Recombinant Human Frizzled-7/FZD7 Protein

Catalog No.: RP00204

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Human	8324	O75084

### Tags

C-hFc&His

### Synonyms

FZD7;FzE3

## Background

Frizzled-7 is a member of the Frizzled family of unconventional G-protein-coupled glycoprotein receptors for the Wnt signaling pathway. During development, Frizzled-7 is expressed during gastrulation and in the fetal gut, kidney and lung where it is thought to influence tissue morphogenesis via non-canonical signaling pathways. In the adult, Frizzled-7 is expressed in skeletal muscle, especially in satellite cells that mediate muscle regeneration in response to Wnt-7a. It is expressed in embryonic stem cells (ES), contributing to self-renewal signaling. Frizzled-7 expression may downregulate APC function and enhance beta-catenin-mediated signals in poorly differentiated human esophageal carcinomas.

## Basic Information

### Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

### Description

Recombinant Human Frizzled-7/FZD7 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln33-Leu185) of human Frizzled-7 (Accession #NP\_003498.1) fused with an Fc, 6×His tag at the C-terminus.

### Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human Glypican-3 Protein at 5 μg/mL (100 μL/well) can bind Human FZD7 with a linear range of 4.88-935.5 ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized Human Glypican-3 Protein at 5 μg/mL (100 μL/well) can bind Human FZD7 with a linear range of 4.88-520.4 ng/mL.

### Storage

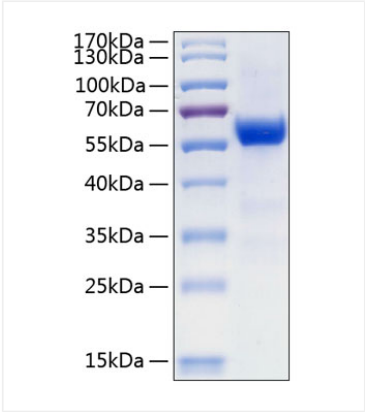
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Contact

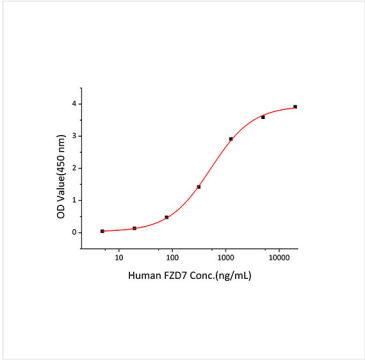


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Validation Data



Recombinant Human Frizzled-7/FZD7 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-60 kDa.



Immobilized Human Glypican-3 Protein at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Human FZD7 with a linear range of 4.88-520.4 ng/mL.