

## Frizzled-7 Protein, Human (CHO, hFc)

<b>Cat. No.:</b>	HY-P79214
<b>Synonyms:</b>	Frizzled Class Receptor 7; FzE3; Frizzled 7, Seven Transmembrane Spanning Receptor; Frizzled Family Receptor 7; Frizzled-7
<b>Species:</b>	Human
<b>Source:</b>	CHO
<b>Accession:</b>	O75084/NP_003498 (Q33-L185)
<b>Gene ID:</b>	8324
<b>Molecular Weight:</b>	46-60 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>Q P Y H G E K G I S    V P D H G F C Q P I    S I P L C T D I A Y    N Q T I L P N L L G</p> <p>H T N Q E D A G L E    V H Q F Y P L V K V    Q C S P E L R F F L    C S M Y A P V C T V</p> <p>L D Q A I P P C R S    L C E R A R Q G C E    A L M N K F G F Q W    P E R L R C E N F P</p> <p>V H G A G E I C V G    Q N T S D G S G G P    G G G P T A Y P T A    P Y L</p>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Human Frizzled-7, at 0.1µg/mL (100 µL/well) can bind Biotinylated Wnt-5a. The ED <sub>50</sub> for this effect is 257.8 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 200 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The Frizzled-7 (FZD7) Protein, a member of the 'frizzled' gene family, encodes a 7-transmembrane domain receptor for Wnt signaling proteins. The FZD7 protein structure includes an N-terminal signal sequence, a cysteine-rich extracellular domain with 10 cysteine residues characteristic of Fz family members, 7 putative transmembrane domains, and an intracellular C-terminal tail featuring a PDZ domain-binding motif. The expression of the FZD7 gene is implicated in potentially downregulating APC function and enhancing beta-catenin-mediated signals, particularly observed in poorly differentiated
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human esophageal carcinomas. This highlights FZD7's role in modulating critical cellular signaling pathways, particularly in the context of cancer progression.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA