

FZD2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P78722
Synonyms:	FZD2; Frizzled-2; Fz-2; hFz2; FzE2
Species:	Human
Source:	HEK293
Accession:	Q14332 (Q24-P190)
Gene ID:	2535
Molecular Weight:	50-62 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>FZD2 Protein functions as a receptor for Wnt proteins, typically engaging the beta-catenin canonical signaling pathway, leading to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin, and subsequent activation of Wnt target genes. Some family members, including FZD2, have demonstrated a secondary signaling pathway involving PKC and calcium fluxes, the integration of which with the canonical pathway remains to be fully elucidated, as PKC appears essential for Wnt-mediated inactivation of GSK-3 kinase. These pathways likely involve interactions with G-proteins and may play roles in transduction and intercellular transmission of polarity information during tissue morphogenesis and in differentiated tissues. Notably, FZD2 acts as a receptor for <i>C.difficile</i> toxin TcdB in the colonic epithelium, where TcdB binding occupies the Wnt-adducted palmitoleate binding site in frizzled receptors, preventing Wnt binding and downstream Wnt signaling.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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