

Frizzled-8 Protein, Human (HEK293, His)

Cat. No.:	HY-P70915
Synonyms:	frizzled 8; frizzled family receptor 8; Frizzled8; Frizzled-8; FZ-8; FZD8; hFZ8
Species:	Human
Source:	HEK293
Accession:	Q9H461 (A28-P172)
Gene ID:	8325
Molecular Weight:	22-32 kDa

PROPERTIES

AA Sequence	<pre> A S A K E L A C Q E I T V P L C K G I G Y N Y T Y M P N Q F N H D T Q D E A G L E V H Q F W P L V E I Q C S P D L K F F L C S M Y T P I C L E D Y K K P L P P C R S V C E R A K A G C A P L M R Q Y G F A W P D R M R C D R L P E Q G N P D T L C M D Y N R T D L T T A A P S P P R R L P P P P P </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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>Frizzled-8, functioning as a receptor for Wnt proteins, plays a pivotal role in the intricate Wnt-Fzd-LRP5-LRP6 complex, orchestrating beta-catenin signaling by inducing the aggregation of receptor-ligand complexes into signalosomes of ribosome size. Operating primarily through the canonical Wnt/beta-catenin signaling pathway, it prompts the activation of disheveled proteins, inhibits GSK-3 kinase, facilitates nuclear accumulation of beta-catenin, and activates Wnt target genes. An additional signaling pathway involving PKC and calcium fluxes has been observed in some family members, although the extent of its integration with the canonical pathway remains unclear. Frizzled-8 may contribute to transducing polarity information during tissue morphogenesis and in differentiated tissues. As a coreceptor alongside RYK for Wnt proteins like WNT1, it actively participates in the formation of a Wnt-signaling complex, engaging with WNT proteins, FZD proteins, and</p>
------------	---

LRP5 or LRP6. The interactions with GPOC, RSPO1, RSPO3, and glypican GPC3 further underscore its intricate involvement in diverse cellular processes.

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

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