

Frizzled-1 Active Protein | FZD1 active protein

Recombinant Human Frizzled-1 Protein

CATALOG #
AAA281509

HOST
HEK293 Cells

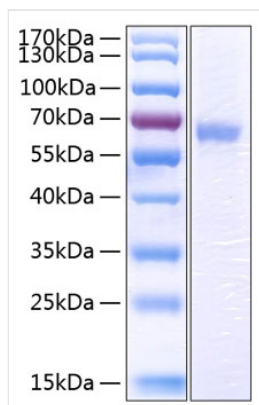
PRODUCT SYNONYMS

Frizzled-1; Recombinant Human Frizzled-1 Protein; DKFZp564G072; FLJ95923; frizzled family receptor 1; frizzled homolog 1; frizzled; Drosophila; homolog of; 1; Frizzled1; fz-1; fzE1; hFz1; seven transmembrane spanning receptor; Wnt receptor; FZD1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Sequence	QAAGQGPGQG PGPGQQPPPP PQQQSGQQY NGERGISVPD HGYCQPISIP LCTDIAYNQT IMPNLLGHTN QEDAGLEVHQ FYPLVKVQCS AELKFFLC SM YAPVCTVLEQ ALPPCRSLCE RARQGCEALM NKFGFQWPDT LKCEKFPVHG AGELCVGQNT SDKGTPTPSL LPEFWTSNPQ H
Sequence Length	647
Species	Human
Endotoxin	Please contact us for more information.
Biological Activity	Measured by its binding ability in a functional ELISA. In a 100 uL reaction mixture containing biotinylated rmWnt-5a at 100 ng/mL and rhFrizzled-1 dilutions at 0.1-8, 000 ng/mL, the concentration of rhFrizzled-1 that produces 50% of the optimal binding response is found to be approximately 20-80 ng/mL.
Reconstitution	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Tag	Fc, 6xHis tag at the C-terminus
Preparation and Storage	Store the lyophilized protein at -20 degree C to -80 degree C for long term. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



SDS-PAGE

Recombinant Human Frizzled-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-66 kDa.

ADDITIONAL INFORMATION

Related Product Information for FZD1 active protein	Description: Recombinant Human Frizzled-1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln73-His253) of human Frizzled-1 (Accession #NP_003496.1) fused with an Fc, 6xHis tag at the C-terminus. Background: This protein belongs to the G-protein coupled receptor Fz/Smo family. FZD1 contains a signal peptide, a cysteine-rich domain in the N-terminal extracellular region, 7 transmembrane domains, and a C-terminal PDZ domain-binding motif. FZD1 is expressed in adult heart, placenta, lung, kidney, pancreas, prostate, and ovary and in fetal lung and kidney. Frizzled is a family of G protein-coupled receptor proteins that serve as receptors in the Wnt signaling pathway and other signaling pathways. When activated, Frizzled leads to activation of Dishevelled in the cytosol. Frizzled proteins and the genes encoding them have been identified in an array of animals, from sponges to humans. Frizzled proteins play key roles in governing cell polarity, embryonic development, formation of neural synapses, cell proliferation, and many other processes in developing and adult organisms. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes.
Product Categories/Family for FZD1 active protein	Other Recombinant Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503825
NCBI GeneID	8321
NCBI Accession #	NP_003496.1
NCBI GenBank Nucleotide #	NP_003496.1
UniProt Accession #	Q9UP38
NCBI Official Full Name	frizzled-1
NCBI Official Synonym Full Names	frizzled class receptor 1
NCBI Official Symbol	FZD1
NCBI Protein Information	frizzled-1
UniProt Protein Name	Frizzled-1
UniProt Gene Name	FZD1
UniProt Synonym Gene Names	Fz-1; hFz1
UniProt Entry Name	FZD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.