

Product datasheet

Recombinant Human Frizzled 7 protein ab191958

1 Image

Description

Product name	Recombinant Human Frizzled 7 protein
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/μg
Expression system	HEK 293 cells
Accession	<u>O75084</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	QPYHGEKGISVPDHGFCQPISIPLCDIAYNQTILPNLLGHTN QEDAGLE VHQFYPLVKVQCSPELRFFLCSEMYAPVCTVLDQAIPPCRS LCERARQGCE ALMNKFGFQWPERLRCEFPVHGAGEICVGQNTSDGSG GPGGGPTAYPTA PYL
Predicted molecular weight	43 kDa including tags
Amino acids	33 to 185
Tags	Fc tag C-Terminus
Additional sequence information	Fused with Fc fragment of Human IgG1 at the C-terminus (AAH15915). The protein migrates as 50-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Specifications

Our **Abpromise guarantee** covers the use of **ab191958** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at 4°C prior to reconstitution. Upon reconstitution add a carrier protein (0.1% BSA). Store at -80°C. Avoid freeze / thaw cycle.

pH: 7.4

Constituents: 0.75% Glycine, 0.61% Tris, Sodium chloride, L-Arginine

Lyophilized from 0.22 µm filtered solution. Normally trehalose is added as protectant before lyophilization.

Reconstitution

Reconstitute with sterile deionized water to a concentration of 100 µg/ml.

General Info

Function

Receptor for Wnt proteins. 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. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues.

Tissue specificity

High expression in adult skeletal muscle and fetal kidney, followed by fetal lung, adult heart, brain, and placenta. Specifically expressed in squamous cell esophageal carcinomas.

Sequence similarities

Belongs to the G-protein coupled receptor Fz/Smo family.
Contains 1 FZ (frizzled) domain.

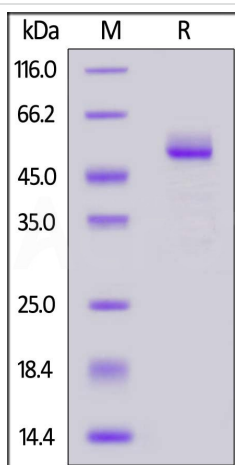
Domain

Lys-Thr-X-X-X-Trp motif is involved in the activation of the Wnt/beta-catenin signaling pathway. The FZ domain is involved in binding with Wnt ligands.

Cellular localization

Membrane.

Images



SDS-PAGE - Recombinant Human Frizzled 7 protein (ab191958)

ab191958 on SDS-PAGE under reducing conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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