

Recombinant Human Frizzled-4/FZD4/CD344 Protein

Catalog No.: RP01377 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 8322 09ULV1

Tags

C-hFc&His

Synonyms

FZD4;CD344;EVR1;FEVR;FZD4S;Fz-4;Fz4; FzE4:GPCR:hFz4

Product Information

Source

Purification

HEK293 cells

≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

43.02 kDa 55-60 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Frizzled-4 (FZD4) is also known as FzE4, CD344, which belongs to the G-protein coupled receptor Fz/Smo family. 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. Familial exudative vitreoretinopathy (FEVR) is a hereditary blinding disorder that features defects in retinal vascular development. Mutations in FZD4 are known to cause autosomal dominant exudative vitreoretinopathy (EVR1). The mutations in FZD4 are associated with the phenotypes of retinal folds or ectopic macula in FEVR.

Basic Information

Description

Recombinant Human Frizzled-4/FZD4/CD344 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe37-Glu180) of human FZD4/CD344/EVR1 (Accession $\#NP_036325.2$) fused with a hFc, $6\times$ His tag at the C-terminus.

Bio-Activity

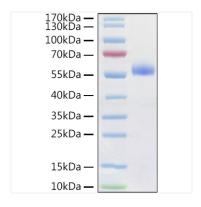
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Frizzled-4/FZD4/CD344 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.