Human Frizzled-2 / FZD2 (24-190) Protein, Fc Tag

Catalog # FZ2-H5255

Synonym

FZD2,Frizzled-2,Fz-2,hFz2,FzE2

Source

Human Frizzled-2, Fc Tag (FZ2-H5255) is expressed from human 293 cells (HEK293). It contains AA Gln 24 - Pro 190 (Accession # Q14332-1).
Predicted N-terminus: Gln 24

Molecular Characterization

Frizzled-2(Gln 24 - Pro 190) Q14332-1	Fc(Pro 100 - Lys 330) P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 44.4 kDa. The protein migrates as 50-62 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in
Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

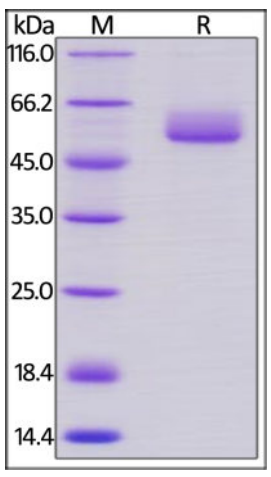
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Frizzled-2, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Frizzled-2 (FZD2) is also known as FzE2, 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. FZD2 contains one FZ (frizzled) domain. FZD2 may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. The Lys-Thr-X-X-X-Trp motif of FZD2 interacts with the PDZ doman of Dvl (Disheveled) family members and is involved in the activation of the Wnt/beta-catenin signaling pathway.

References

(1) Sagara N., et al., 1998, Biochem. Biophys. Res. Commun. 252:117-122.

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.