

Synonym

FZD4,Frizzled-4,CD344,Fz-4,hFz4,FzE4

Source

Human Frizzled-4, Fc Tag (FZ4-H5250) is expressed from human 293 cells (HEK293). It contains AA Phe 37 - Glu 180 (Accession # [AAI14528](#)).

Predicted N-terminus: Phe 37

Molecular Characterization

Frizzled-4(Phe 37 - Glu 180) AAI14528	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 42.9 kDa. The protein migrates as 50-55 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 PBS, pH7.4. 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.

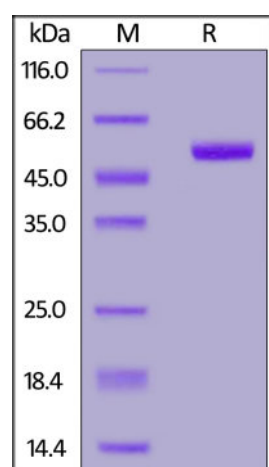
Storage

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-4, 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-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. FZD4 contains one FZ (frizzled) domain. FZD4 may be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues. FZD4 interacts with MAGI3 and norrin (NDP).

References

- (1) [Nallathambi J., et al., 2006, Mol. Vis. 12:1086-1092.](#)

Human Frizzled-4 / FZD4 Protein, Fc Tag

Catalog # FZ4-H5250

(2) [Sjoebloom T., et al., 2006, Science 314:268-274.](#)

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