RP00204

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Recombinant Human Frizzled-7/FZD7 Protein

Catalog No.: RP00204 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	8324	O75084

Tags
C-hFc&His

Synonyms
FZD7;FzE3

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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-7 is a member of the Frizzled family of unconventional G-protein-coupled glycoprotein receptors for the Wnt signaling pathway. During development, Frizzled-7 is expressed during gastrulation and in the fetal gut, kidney and lung where it is thought to influence tissue morphogenesis via non-canonical signaling pathways . In the adult, Frizzled-7 is expressed in skeletal muscle, especially in satellite cells that mediate muscle regeneration in response to Wnt-7a. It is expressed in embryonic stem cells (ES), contributing to self-renewal signaling . Frizzled-7 expression may downregulate APC function and enhance beta-catenin-mediated signals in poorly differentiated human esophageal carcinomas.

Basic Information

Description
Recombinant Human Frizzled-7/FZD7 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln33-Leu185) of human Frizzled-7 (Accession #NP_003498.1) fused with an Fc, 6×His tag at the C-terminus.

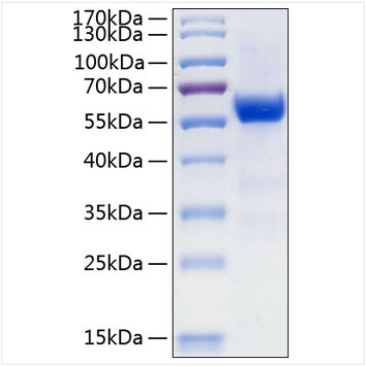
Bio-Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Human Glypican-3 Protein at 5 μg/mL (100 μL/well) can bind Human FZD7 with a linear range of 4.88-935.5 ng/mL.|2.Measured by its binding ability in a functional ELISA. Immobilized Human Glypican-3 Protein at 5 μg/mL (100 μL/well) can bind Human FZD7 with a linear range of 4.88-520.4 ng/mL.

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

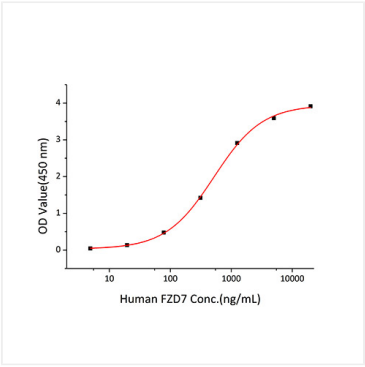
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Frizzled-7/FZD7 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human Glypican-3 Protein at 5 μg/mL (100 μL/well) can bind Human FZD7 with a linear range of 4.88-520.4 ng/mL.