Recombinant Human Frizzled-7 protein (His Tag)

Catalog Number: PDEH101054

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Species	Human
Source	E.coli-derived Human Frizzled-7 protein Gly31-Arg250, with an C-terminal His
Calculated MW	24.1 kDa
Observed MW	32 kDa
Accession	O75084
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data
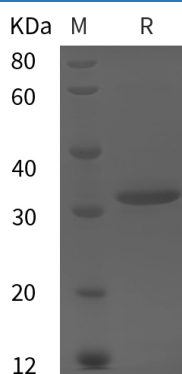
> 95 % as determined by reducing SDS-PAGE.

Background

Frizzled-7 is a member of the Frizzled family of unconventional G-protein-coupled glycoprotein receptors for the Wnt signaling pathway . The Wnt genes encode a large family of glycoproteins that are essential in development and tissue maintenance . Like other Frizzled family members, Frizzled-7 contains a divergent N-terminal signal peptide (amino acid (aa) 1-32), a highly conserved extracellular cysteine-rich domain (CRD, aa 44-169), a variable-length linker region (aa 170-256), a seven-pass transmembrane region (aa 257-549), and a variable-length C-terminal cytoplasmic domain (aa 550-574) (1-3). The CRD, which comprises the binding site for Wnts and other ligands such as Syndecan 4 and fibronectin, spans about 130 amino acid residues and contains ten invariant cysteine residue

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