

Frizzled-5 Protein, Mouse (CHO, Fc)

Cat. No.:	HY-P74136
Synonyms:	Frizzled-5; Fz-5; mFz5; Fzd5
Species:	Mouse
Source:	CHO
Accession:	Q9EQD0 (M1-P167)
Gene ID:	14367
Molecular Weight:	52-56 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Frizzled-5, a receptor for Wnt proteins, demonstrates a nuanced activation profile, being responsive to WNT2, WNT10B, and WNT5A, while showing no affinity for WNT2B or WNT4 in vitro. Its involvement in canonical Wnt/beta-catenin signaling is pivotal, leading to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin, and subsequent activation of Wnt target genes. Additionally, a second signaling pathway, potentially involving PKC and calcium fluxes, adds complexity, with implications for Wnt-mediated inactivation of GSK-3 kinase. Frizzled-5's engagement in tissue morphogenesis and potential participation in transducing polarity information underscores its versatile role. Notably, in neurons, WNT7A activation facilitates synapse formation. Its contributions extend to yolk sac angiogenesis and placental vascularization. Homodimerization, facilitated by binding of unsaturated fatty acid molecules, and interactions with WNT2B, WNT7A, and GOPC further underscore the multifaceted regulatory functions of Frizzled-5 within intricate signaling networks.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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