Frizzled-10/CD350 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P74145
Synonyms:	CD350 antigen; CD350; Frizzled-10; FZ-10; FZD10
Species:	Mouse
Source:	HEK293
Accession:	Q8BKG4 (M1-G162)
Gene ID:	93897
Molecular Weight:	Approximately 52 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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Frizzled-10/CD350 Protein operates as a receptor for Wnt proteins, functioning primarily in the canonical Wnt/beta-catenin signaling pathway. This pathway orchestrates the activation of disheveled proteins, inhibits GSK-3 kinase, facilitates nuclear accumulation of beta-catenin, and triggers the activation of Wnt target genes. Alongside the canonical pathway, a secondary signaling route involving PKC and calcium fluxes has been identified for some family members. The interplay between these pathways and their potential integration remains to be fully elucidated, given PKC's apparent role in Wnt-mediated inactivation of GSK-3 kinase. Frizzled-10 may play a crucial role in transducing and transmitting polarity information during tissue morphogenesis or within differentiated tissues. Interactions with MYOC and WNT7B underscore its involvement in intricate cellular processes and signal transduction cascades.

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