Frizzled-1 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P70210
Synonyms:	rMuFrizzled-1/Fz-1, Fc; Frizzled-1; Fz-1; mFz1; Fzd1; Frizzled homolog 1
Species:	Mouse
Source:	HEK293
Accession:	O70421 (V69-H248)
Gene ID:	14362
Molecular Weight:	55-70 kDa

PROPERTIES

AA Sequence	V R A Q A A G Q V S G P G Q Q A P P P P Q P Q Q S G Q Q Y N G E R G I S I P D H G Y C Q P I S I P L C T D I A Y N Q T I M P N L L G H T N Q E D A G L E V H Q F Y P L V K V Q C S A E L K F F L C S M Y A P V C T V L E Q A L P P C R S L C E R A R Q G C E A L M N K F G F Q W P D T L K C E K F P V H G A G E L C V G Q N T S D K G T P T P S L L P E F W T S N P Q H
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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-1, a receptor for Wnt proteins, is prominently activated by WNT7B and, to varying degrees, by WNT3A, WNT3, WNT1, and WNT2, while showing resistance to activation by WNT4, WNT5A, WNT5B, WNT6, WNT7A, or WNT7B in certain contexts. Its involvement in the canonical Wnt/beta-catenin signaling pathway is fundamental, instigating the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin, and subsequent activation of Wnt target genes. The presence of an alternative signaling pathway involving PKC and calcium fluxes adds intricacy, with unresolved questions regarding its integration with the canonical pathway. Frizzled-1 may play a crucial role in transducing polarity information during tissue morphogenesis and in differentiated tissues, underscoring its multifaceted contributions.

	Notably, interactions with MYOC and WNT7B further emphasize its intricate involvement in diverse cellular processes.

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