Active Recombinant Human/Mouse Wnt-5a Protein, Biotinylated

Cat. No. WNT5A-11H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human/Mouse Wnt-5a (Gln38-Lys380) biotinylated protein without tag was expressed in Chinese Hamster Ovary cell line.
Species	Human
Source	CHO
ProteinLength	38-380 aa
Description	The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene encodes a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. This protein is a ligand for the seven transmembrane receptor frizzled-5 and the tyrosine kinase orphan receptor 2. This protein plays an essential role in regulating developmental pathways during embryogenesis. This protein may also play a role in oncogenesis. Mutations in this gene are the cause of autosomal dominant Robinow syndrome. Alternate splicing results in multiple transcript variants.
Predicted N Terminal	Asn44 & No results obtained: Gln38 predicted
Bio-activity	Measured by its binding ability in a functional ELISA. In a 100 µ reaction mixture containing biotinylated Recombinant Mouse Wnt-5a at 50 ng/mL and Recombinant

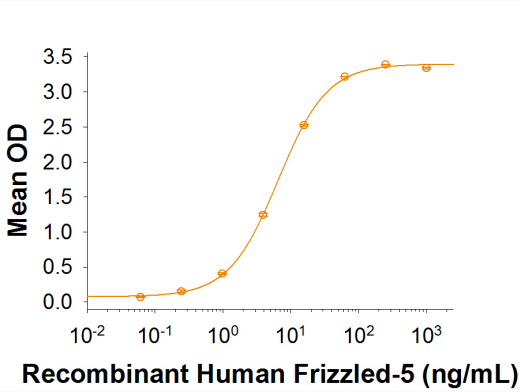
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	Human Frizzled-5 Fc Chimera dilutions, the concentration of Recombinant Human Frizzled-5 Fc Chimera that produces 50% of the maximal binding response is 2-20 ng/mL.
Molecular Mass	38 kDa
Endotoxin	<0.10 EU per 1 μg of the protein by the LAL method.
Purity	>80%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	12 months from date of receipt, ≤ -20 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS, EDTA, CHAPS and Trehalose with BSA as a carrier protein.
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Conjugation	Biotin

GENE INFORMATION

Gene Name	Wnt5a wingless-type MMTV integration site family, member 5A [Mus musculus (house mouse)]
Official Symbol	Wnt5a
Synonyms	Wnt5a; wingless-type MMTV integration site family, member 5A; Wnt-5a; 8030457G12Rik; protein Wnt-5a; wingless-related MMTV integration site 5A

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Gene ID	22418
mRNA Refseq	NM_009524
Protein Refseq	NP_033550
UniProt ID	P22725
Binding Activity	 Recombinant Biotinylated Mouse Wnt-5a binds to Recombinant Human Frizzled-5 Fc Chimera with an ED50of 2-20 ng/mL.

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