

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

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human/Mouse Wnt-5a (Gln38-Lys380) biotinylated protein without tag was expressed in Chinese Hamster Ovary cell line.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	38-380 aa
<b>Description</b>	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.
<b>Predicted N Terminal</b>	Asn44 & No results obtained: Gln38 predicted
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. In a 100 $\mu$ 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.

<b>Molecular Mass</b>	38 kDa
<b>Endotoxin</b>	<0.10 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>80%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS, EDTA, CHAPS and Trehalose with BSA as a carrier protein.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in PBS.
<b>Conjugation</b>	Biotin

## GENE INFORMATION

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

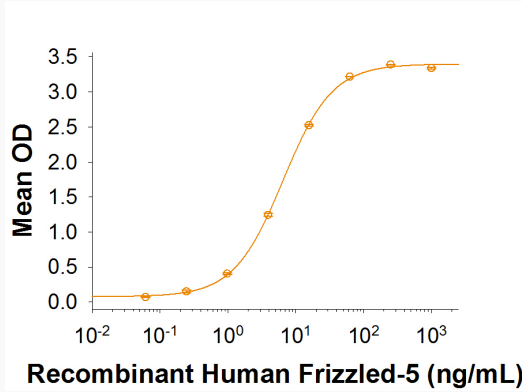
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<b>Gene ID</b>	22418
<b>mRNA Refseq</b>	NM_009524
<b>Protein Refseq</b>	NP_033550
<b>UniProt ID</b>	P22725

**Binding Activity**



**Recombinant Human Frizzled-5 (ng/mL)**

Recombinant Biotinylated Mouse Wnt-5a binds to Recombinant Human Frizzled-5 Fc Chimera with an ED50 of 2-20 ng/mL.

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