

Recombinant Mouse Wnt5a Protein, Gln38-Lys380

Cat. No. WNT5A-19H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human/Mouse Wnt5a protein (Gln38-Lys380) without tag was expressed in Chinese Hamster Ovary cell line.
Species	Mouse
Source	CHO
ProteinLength	38-380 a.a.
Description	Enables frizzled binding activity; protein domain specific binding activity; and receptor ligand activity. Involved in several processes, including Wnt signaling pathway; heart development; and positive regulation of macromolecule metabolic process. Acts upstream of or within several processes, including animal organ development; positive regulation of protein phosphorylation; and regulation of animal organ morphogenesis. Located in cell surface and extracellular matrix. Is expressed in several structures, including alimentary system; embryo ectoderm; genitourinary system; limb; and sensory organ. Used to study Robinow syndrome. Human ortholog(s) of this gene implicated in autosomal dominant Robinow syndrome 1. Orthologous to human WNT5A (Wnt family member 5A).
Bio-activity	Measured by its ability to inhibit Wnt-3a-induced alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED50 for this effect is 0.1-0.5 µg/mL, in the presence of 5 ng/mL rmWnt-3a. Optimal concentrations should be determined by each laboratory for each application.

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Molecular Mass	Predicted Molecular Mass: 38 kDa SDS-PAGE: 45 kDa, reducing conditions
Endotoxin	< 1 EU/μg by LAL
Purity	> 80%, by SDS-PAGE under reducing conditions and visualized by silver stain.
N-terminal Sequence Analysis	Asn44 & No results obtained: Gln38 predicted
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS, EDTA and CHAPS with BSA as a carrier protein.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.

GENE INFORMATION

Gene Name	Wnt5a wingless-type MMTV integration site family, member 5A [<i>Mus musculus</i> (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

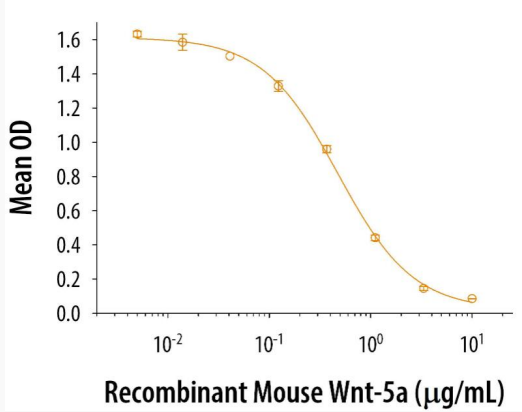
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Gene ID	22418
mRNA Refseq	NM_009524
Protein Refseq	NP_033550
UniProt ID	P22725

Bioactivity



Recombinant mouse Wnt-5a inhibits Wnt-3a-induced alkaline phosphatase production in the MC3T3-E1 mouse preosteoblast cell line. The ED50 for this effect is 0.1-0.5 µg/mL in the presence of 5 ng/mL recombinant mouse Wnt-3a.

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