

Active Recombinant Mouse Wnt5a

Cat. No. Wnt5a-2054M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Wnt5a (Gln38-Lys380) was expressed in CHO Cells.
Species	Mouse
Source	CHO
ProteinLength	38-380 a.a.
Description	Protein Wnt-5a is a protein that in humans is encoded by the WNT5A gene. The WNT gene family consists of structurally related genes that 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 is a member of the WNT gene family. The WNT5A is highly expressed in the dermal papilla of depilated skin. It encodes a protein showing 98%, 98%, and 87% amino acid identity to the mouse, rat and the xenopus Wnt5A protein, respectively. The experiments performed in Xenopus laevis embryos identified that human frizzled-5 (hFz5) is the receptor for the Wnt5A ligand and the Wnt5A/hFz5 signaling mediates axis induction.
Molecular Mass	38 kDa
Predicted N terminal	Gln38
Formulation	Lyophilized from a 0.2 µ filtered solution in PBS, EDTA and CHAPS.

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Purity	>80%, by SDS-PAGE under reducing conditions and visualized by silver stain.
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 typically 0.1 - 0.5 µg/mL, in the presence of 5 ng/mL rmWnt-3a.
EndotoxinLevel	<1.0 EU per 1 µg of the protein by the LAL method.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Storage	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.
OfficialSymbol	Wnt5a

GENE INFORMATION

Gene Name	Wnt5a wingless-related MMTV integration site 5A [<i>Mus musculus</i>]
Synonyms	Wnt5a; wingless-related MMTV integration site 5A; Wnt-5a; 8030457G12Rik; protein Wnt-5a
Gene ID	22418
mRNA Refseq	NM_009524
Protein Refseq	NP_033550
UniProt ID	P22725
Chromosome	14 A3; 14 16.8 cM

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Location	
Pathway	Basal cell carcinoma; Class B/2 (Secretin family receptors); Melanogenesis; Pathways in cancer; Wnt signaling pathway
Function	cytokine activity; frizzled binding; frizzled-2 binding; receptor binding

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