

Recombinant Mouse Wnt5a Protein, Myc/DDK-tagged

Cat. No. Wnt5a-7006M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse wingless-type MMTV integration site family, member 5A (Wnt5a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Ligand for members of the frizzled family of seven transmembrane receptors. Can activate or inhibit canonical Wnt signaling, depending on receptor context. In the presence of FZD4, activates beta-catenin signaling. In the presence of ROR2, inhibits the canonical Wnt pathway by promoting beta-catenin degradation through a GSK3-independent pathway which involves down-regulation of beta-catenin-induced reporter gene expression. Suppression of the canonical pathway allows chondrogenesis to occur and inhibits tumor formation. Stimulates cell migration. Decreases proliferation, migration, invasiveness and clonogenicity of carcinoma cells and may act as a tumor suppressor. Mediates motility of melanoma cells. Required during embryogenesis for extension of the primary anterior-posterior axis and for outgrowth of limbs and the genital tubercle. Inhibits type II collagen expression in chondrocytes.
Molecular Mass	42.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Wnt5a wingless-type MMTV integration site family, member 5A [Mus musculus (house mouse)]

Official Symbol Wnt5a

Synonyms WNT5A; wingless-related MMTV integration site 5A; protein Wnt-5a; Wnt-5a; 8030457G12Rik

Gene ID 22418

mRNA Refseq NM_009524

Protein Refseq NP_033550

UniProt ID P22725

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