Recombinant Human WNT5A, MYC/DDK-tagged

Cat. No. WNT5A-2053H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WNT5A fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.
Species	Human
Source	HEK293
ProteinLength	1-380 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.
Molecular Mass	42.2 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Storage buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Concentration	>50 ug/mL as determined by microplate BCA method
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Storage	Store at -800C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
OfficialSymbol	WNT5A

GENE INFORMATION

Gene Name	WNT5A wingless-type MMTV integration site family, member 5A [Homo sapiens]
Synonyms	WNT5A; wingless-type MMTV integration site family, member 5A; protein Wnt-5a; hWNT5A; WNT 5A protein; WNT-5A protein
Gene ID	7474
mRNA Refseq	NM_003392
Protein Refseq	NP_003383
MIM	164975
UniProt ID	P41221
Chromosome Location	3p21-p14
Pathway	Basal cell carcinoma; Class B/2 (Secretin family receptors); DNA damage response (only ATM dependent); GPCR ligand binding; HTLV-I infection

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Function	cytokine activity; frizzled binding; frizzled-2 binding; protein domain specific binding; receptor agonist activity; receptor tyrosine kinase-like orphan receptor binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding

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