

Recombinant Human WNT5A, StreptII-tagged

Cat. No. WNT5A-206H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified, full-length human recombinant WNT5A protein (amino acids 36-380, 345 a.a.) with StreptII tag, produced in human cells. Predicted molecular weight: 38.8 kDa. (Accession NP_003353.2; UniProt P41221)
Species	Human
Source	Human Cells
ProteinLength	36-380, 345 a.a.
Description	The WNT family consists of structurally related signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This protein is a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. It 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.
Form	Lyophilized from sterile 0.2µm filtered solution in 0.3X PBS with 10% Trehalose (carrier-free).
AA Sequence	FAQVVIEANSWWSLGMNPNVQMSEVYIIGAQPLCSQLAGLSQGQKKLCHLYQDHM QYIGEGAKTGIKECQYQFRH RRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAG VVNAMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDN IDYGYRFAKEFVDA

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RERERIHAKGSYESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLKTCWLQ
LADFR KVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLVYIDPSPDYCVR
NESTGSLGTQGRLCNKTSEGMDGE LMCCGRGYDQFKTVQTERCHCKFWCCYV
KCKKCTEIVDQFVCK

Endotoxin <0.1 eu per ug protein by lal

Purity >95% pure by SDS-PAGE

Storage 12 months at -20°C as supplied; 1 month at 4°C after reconstitution. Avoid freeze/thaw cycles.

Reconstitution Centrifuge the vial prior to opening. Reconstitute in PBS to a concentration of 0.1 mg/ml.

GENE INFORMATION

Gene Name [WNT5A wingless-type MMTV integration site family, member 5A \[Homo sapiens \]](#)

Official Symbol WNT5A

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_001256105](#)

Protein Refseq [NP_001243034](#)

MIM [164975](#)

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UniProt ID	P41221
Chromosome Location	3p21-p14
Pathway	Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; DNA damage response (only ATM dependent), organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem;
Function	cytokine activity; frizzled binding; frizzled-2 binding; protein domain specific binding; receptor agonist activity; receptor binding; receptor tyrosine kinase-like orphan receptor binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding;