

## Active Recombinant Human WNT5A Protein

**Cat. No.** WNT5A-118H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      The mature recombinant human Wnt-5a protein containing 343aa (Gln38-Lys380) without tag was expressed in E. coli.

**Species**                      Human

**Source**                        E.coli

**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.

**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.

**Molecular Mass**            38 kDa

**Product-Related**            38-380

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**Proteins**

**Storage** At -80 centigrade. Avoid repeated freeze-thaw cycles.

**Storage Buffer** PBS

**GENE INFORMATION**

**Gene Name** [WNT5A Wnt family member 5A \[ Homo sapiens \(human\) \]](#)

**Official Symbol** [WNT5A](#)

**Synonyms** WNT5A; Wnt family member 5A; hWNT5A; protein Wnt-5a; Names; WNT-5A protein; epididymis secretory sperm binding protein; wingless-type MMTV integration site family, member 5A

**Gene ID** [7474](#)

**mRNA Refseq** [NM\\_001256105](#)

**Protein Refseq** [NP\\_001243034](#)

**MIM** [164975](#)

**UniProt ID** [P41221](#)

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