

## Active Recombinant Human/Mouse WNT5A Protein

Cat. No. WNT5A-58H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human/Mouse WNT5A Protein without tag was expressed in CHO.

**Species** Human/Mouse

**Source** CHO

**Description** The WNT gene family consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis, adipogenesis, etc. and in several other developmental processes, including regulation of cell fate and patterning during embryogenesis. Protein Wnt5a is a protein that is encoded by the WNT5A gene. This gene is a member of the WNT gene family. Mature mouse Wnt5a is 100% identical in amino acids to mature human Wnt5a after being secreted from expression cells. Wnt5a protein can inhibit or activate TCF-based Wnt signaling. This protein was purified using a combination of ion exchange, affinity column with Wnt signaling inhibitor-bound Sepharose beads, and followed by gel filtration.

**Form** Liquid

**Bio-activity** The inhibitory activity of Wnt5a on the canonical Wnt pathway has been measured using TCF-based Wnt reporter stable cell line stimulated by mouse Wnt3a. IE50 of Wnt5a is about 50-100 ng/mL in the presence of 1-2 ng/mL of mouse Wnt3a.

**Molecular Mass** ~45 kDa

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|                       |  |
|-----------------------|--|
| <b>Endotoxin</b>      | <0.5 EU/ µg  |
| <b>Purity</b>         | High Purity, >75% by SDS-PAGE  |
| <b>Stability</b>      | Keep the protein frozen until use. Freeze at -20 centigrade or below after thawed. Mix the protein by pipetting up and down only, but do not use vortexer. |
| <b>Storage Buffer</b> | PBS pH7.4-7.6, 1%Chaps, 0.1% BSA   |
| <b>Shipping</b>       | The product is shipped with dry ice. Upon receipt, store it immediately at -80 centigrade recommended.   |

## GENE INFORMATION

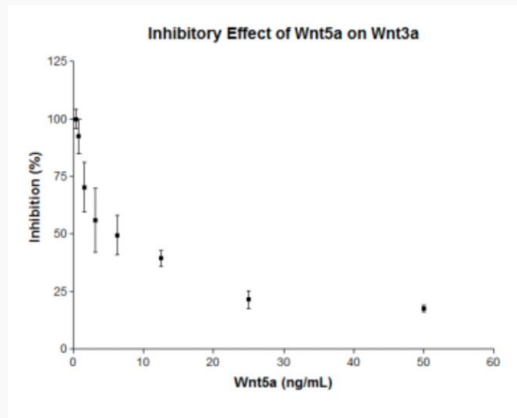
|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | WNT5A Wnt family member 5A [ Homo sapiens (human) ]  |
| <b>Official Symbol</b> | WNT5A  |
| <b>Synonyms</b>        | WNT5A; Wnt family member 5A; hWNT5A; protein Wnt-5a; WNT-5A protein; epididymis secretory sperm binding protein; wingless-type MMTV integration site family, member 5A |
| <b>Gene ID</b>         | 7474   |
| <b>mRNA Refseq</b>     | NM_003392  |
| <b>Protein Refseq</b>  | NP_003383  |
| <b>MIM</b>             | 164975   |
| <b>UniProt ID</b>      | P41221   |

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### Activity Assay



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