

## Recombinant Human WNT3A protein

Cat. No. WNT3A-185H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human WNT3A(Ser19-Lys352) was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ProteinLength    | 19-352 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Description      | <p>Protein Wnt-3a is a protein that is encoded by the WNT3A gene. 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. This gene is a member of the WNT gene family. Human Wnt3a shows 96% amino acid identity to mouse Wnt3a protein.</p> |
| Form             | 20 mM Tris-HCl, pH 7.2-7.4, 1% CHAPS, 0.1% BSA.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Molecular Mass   | Predicted M.W.: 37 kDa;Actual M.W.: 41 kDa evaluated by SDS-PAGE under reducing conditions.                                                                                                                                                                                                                                                                                                                                                                                           |
| Purity           | ~ 75 % evaluated by SDS-PAGE under reducing conditions                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage          | This preparation can be stored at 4 centigrade for 6 months; Storage under frozen conditions may decrease activity; avoid freeze-thaw.To make stock solution of this protein, use Wnt Dilution Buffer provided (Tris-HCl buffer pH 7.2-7.4, 1% CHAPS,                                                                                                                                                                                                                                 |

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0.1% BSA). To treat cells, dilute the stock solution at least 50 times in medium and use Wnt Dilution Buffer as a control.

**Concentration** 10 µg/mL

## GENE INFORMATION

**Gene Name** WNT3A wingless-type MMTV integration site family, member 3A [ Homo sapiens ]

**Official Symbol** WNT3A

**Synonyms** WNT3A; wingless-type MMTV integration site family, member 3A; protein Wnt-3a; MGC119418; MGC119419; MGC119420;

**Gene ID** 89780

**mRNA Refseq** NM\_033131

**Protein Refseq** NP\_149122

**MIM** 606359

**UniProt ID** P56704

**Chromosome Location** 1q42

**Pathway** Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; DNA damage response (only ATM dependent), organism-specific biosystem; GPCR ligand binding, organism-

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specific biosystem; HTLV-I infection, organism-specific biosystem;

**Function**

extracellular matrix structural constituent; frizzled-2 binding; protein binding; protein domain specific binding; receptor agonist activity; transcription coactivator activity;

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