

Active Recombinant Human WNT3A Protein (Ser19-Lys352), GMP Grade

Cat. No. WNT3A-01HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human Wnt-3a protein (Ser19-Lys352) without tag was expressed in Chinese Hamster Ovary cell line and manufactured and tested under cGMP guidelines.
Species	Human
Source	CHO
ProteinLength	Ser19-Lys352
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 is a member of the WNT gene family. It encodes a protein which shows 96% amino acid identity to mouse Wnt3A protein, and 84% to human WNT3 protein, another WNT gene product. This gene is clustered with WNT14 gene, another family member, in chromosome 1q42 region.
Bio-activity	Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED50 for this effect is 5-25 ng/mL. Measured by its ability to induce Topflash reporter activity in HEK293T human embryonic kidney cells. The ED50 for this effect is <500 ng/mL. Protein concentrations should be titrated based on cell type and if appropriate, passage number of the cell line.

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Molecular Mass	Predicted Molecular Mass: 37.4 kDa SDS-PAGE: 40 kDa, reducing conditions
N-terminal Sequence Analysis	Ser19-Tyr-Pro-Ile-Trp-Trp-Ser-Leu-Ala-Val
Endotoxin	<0.10 EU/ µg of the protein by the LAL method.
Purity	>75%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS, EDTA and CHAPS.
Reconstitution	Reconstitute at 200 µg/mL in PBS.
Shipping	The product is shipped with polar packs.

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;

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Gene ID 89780

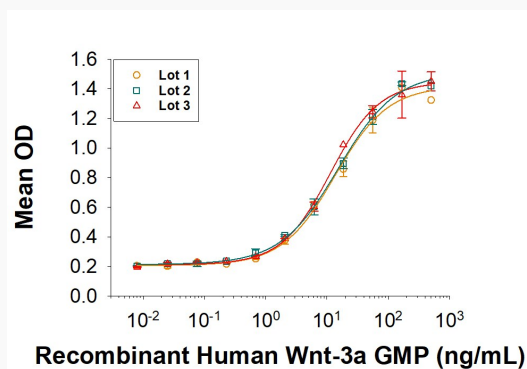
mRNA Refseq NM_033131

Protein Refseq NP_149122

MIM 606359

UniProt ID P56704

Bioactivity



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