

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

Cat. No. WNT3A-22HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant Human WNT3A Protein (Ser19-Lys352) without tag was expressed in CHO 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 5.00-25.0 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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	Optimal concentrations should be determined by each laboratory for each application.
Molecular Mass	Predicted Molecular Mass: 37.4 kDa SDS-PAGE: 40 kDa, reducing conditions
N-terminal Sequence Analysis	Ser19
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>75%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS, EDTA and CHAPS with BSA as a carrier protein.
Reconstitution	Reconstitute at 200 μg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	WNT3A Wnt family member 3A [Homo sapiens (human)]
Official Symbol	WNT3A

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Synonyms	WNT3A; Wnt family member 3A; protein Wnt-3a; wingless-type MMTV integration site family, member 3A
Gene ID	89780
mRNA Refseq	NM_033131
Protein Refseq	NP_149122
MIM	606359
UniProt ID	P56704
Cell Culture	