

Active Recombinant Human WNT3A protein

Cat. No. WNT3A-523H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WNT3A(Ser19-Lys352) was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	19-352 a.a.
Description	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.
Form	Tris-HCl buffer pH 7.2-7.4, 0.5% CHAPS, 0.1% BSA.
Bio-activity	Wnt3a activity has been measured using TCF-based Wnt reporter stable cell lines (HEK293 and NIH3T3). 4 ng/mL of Wnt3a generate fourteen- to twenty-fold increase of luciferase activity compared to control (buffer without Wnt3a).
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

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Storage	This preparation can be stored at 4 centigrade for 6 months; Storage under frozen conditions may decrease activity; avoid freeze-thaw.
Concentration	4 g/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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