

Recombinant Human WNT3A protein

Cat. No. WNT3A-457H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WNT3A(19-352aa) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	19-352 a.a.
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. WNT3a 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 protein is clustered with WNT14 gene, another family member, in chromosome 1q42 region.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Molecular Mass	37.5 kDa (335aa)
AA Sequence	MSYPIWWSLA VGPQYSSLGS QPILCASIPG LVPKQLRFCR NYVEIMPSVA EGIKIGIQEC QHQFRGRRWN CTTVHDSLAI FGPVLDKATRESAFVHAIAS AGVAFVTRS CAEGTAAICG CSSRHQGSPG KGWKWGGCSE DIEFGGMVSR EFADARENRP DARSAMNRHN NEAGRQAIASHMHLKCKCHG LSGSCEVKTC WWSQPDFRAI GDFLKDKYDS ASEMVVEKHR ESRGWVETLR PRYTYFKVPT

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ERDLVYYEAS PNFCEPNPETGSFGTRDRTC NVSSHGIDGC DLLCCGRGHN
ARAERRREKC RCVFHWCCYV SCQECTRUYD VHTCK

Purity > 85% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

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

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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-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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