

Recombinant Human WNT3A

Cat. No. WNT3A-1700H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	CHO
Description	Wingless-type MMTV integration site family, member 3A, also known as WNT3A is an intercellular signaling molecule. WNT3A is expressed extensively in cells fated to give rise to embryonic mesoderm. Wnt-3a regulates survival, expansion, and maintenance of neural progenitors derived from embryonic stem cells. It has been reported that Wnt-3a supports self-renewal of embryonic stem cells and can maintain these cells in a pluripotent state. Wnt-3a is also considered a ligand that activates the beta-catenin-dependent pathway in Wnt signaling, which is implicated in numerous physiological events such as morphogenesis.
State Of Matter	Lyophilized.
Purity	>75% as determined by SDS-PAGE under reducing conditions.
Endotoxin	<0.1 EU/g as determined by the LAL method.
Molecular Weight	The predicted molecular weight of Recombinant Human WNT-3a (Ser19 - Lys352) is Mr 37.4 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 40 kDa.

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Formulation	The protein was 0.2 μ filtered and lyophilized from PBS, 1.0 mM EDTA, 0.5% CHAPS, pH 6.8.
Biological Activity	The biological activity of Human WNT-3a was determined by its ability to promote alkaline phosphatase production by MC3T3E1 cells. The expected ED50 is 5-25 ng/ml.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C for up to three months in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	WNT3A wingless-type MMTV integration site family, member 3A [Homo sapiens]
Synonyms	wingless-type MMTV integration site family, member 3A; MGC119418; MGC119419; MGC119420; WNT3A; OTTHUMP00000035713
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; Hedgehog signaling pathway; Melanogenesis; Pathways in cancer; Wnt signaling pathway

Function

extracellular matrix structural constituent; protein binding; signal transducer activity

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