

Active GMP Recombinant Human Wnt-3α Protein

Cat. No. Wnt-3α-01HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Wnt-3α protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	Wnt-3α belongs to the Wnt family of signaling proteins and plays a key role in maintaining the integrity of embryonic and adult tissues. expressed primarily in the overlapping regions of the central nervous system (CNS), Wnt-3α underlies a variety of signaling, including embryogenesis, cell proliferation, CNS development, and cytoskeleton formation, among others, and, like other members of the Wnt family Wnt-3α contains a highly conserved lipid-modified cysteine-rich structural domain. Wnt-3α is a 44 kd secreted hydrophobic glycoprotein containing a conserved pattern of 24 cysteine residues. Wnt-3α has two N-bond glycosylation sites (Asn 87, Asn 298), and Ser 209 is modified by palmitoleic acid to glycosylate and acylate respectively, which are essential for the efficient secretion and biological activity of Wnt. Wnt-3α also promotes self-renewal of hematopoietic stem cells, neural stem cells and embryonic stem cells.
Form	Lyophilized powder
Endotoxin	<20 EU/mg

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Bio-activity	>2.0 x 10 ⁶ IU/mg
Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhWnt-3α be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

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