

Active Recombinant Mouse WNT3

Cat. No. WNT3-5160M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse WNT3 is a 38-41 kDa protein and has preferential expression in Cell culture.
Species	Mouse
Description	WNT3 belongs to the Wnt family of signaling proteins that play a key role in maintaining the integrity of embryonic and adult tissues. Expression of WNT3 occurs primarily along the dorsal midline across overlapping regions of the Central Nervous System (CNS). WNT3 signaling is essential for various morphogenetic events including embryonic patterning, cell determination, cell proliferation, CNS development, and cytoskeletal formation.
Form	Supplied as lyophilized powder.
Purity	> 75% pure by SDS PAGE and HPLC
Sequence	Region of Wnt3 protein corresponding to amino acids SLAVGPQYSS LSTQPILCAS IPGLVPKQLR FCRNYVEIMP SVAEGVKAGIQECQHQRGR RWNCTTVSNS LAIFGPVLDK ATRESAFVHA IASAGVAFV TRSCAEGSAA ICGCSSRLQGSPGEGWKWGG CSEDIEFGGM VSREFADARE NRPDARSAMN RHNNEAGRQA IASHMHLKCK CHGLS
Molecular Mass	38-41 kDa
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).

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Bioactivity	The ED ₅₀ was determined by its ability to induce alkaline phosphatase production by CCL-226 cells. The expected ED ₅₀ for this effect is 0.4-0.6 ng/ml.
Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions.
Storage	Store at 4°C until reconstitution. Following reconstitution aliquot and freeze at -20°C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	Wnt3

GENE INFORMATION

Gene Name	Wnt3 wingless-related MMTV integration site 3 [<i>Mus musculus</i>]
Synonyms	WNT3; wingless-type MMTV integration site family, member 3; INT4; MGC131950; MGC138321; MGC138323; proto-oncogene Wnt-3; WNT-3 proto-oncogene protein; proto-oncogene Int-4 homolog
Gene ID	22415
mRNA Refseq	NM_009521
Protein Refseq	NP_033547
UniProt ID	P17553
Chromosome Location	11 E1
Pathway	Basal cell carcinoma; Class B/2 (Secretin family receptors); DNA damage response

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(only ATMdependent); GPCR ligand binding; HTLV-I infection; Hedgehog signalingpathway; Melanogenesis; Pathways in cancer; Signaling by GPCR; Wnt SignalingPathway; Wnt Signaling Pathway NetPath; Wnt SignalingPathway and Pluripotency; Wnt signaling network

Function

Frizzledbinding; frizzled-2 binding; receptor binding

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