

Active Recombinant Mouse Wnt3a

Cat. No. Wnt3a-180M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Wnt3a was expressed in Insect cells.
Species	Mouse
Source	Insect Cells
ProteinLength	328 a.a.
Description	Wnt-3a signalling has been implicated in the control of differentiation of stem cells. Wnt proteins have been shown to regulate cell-to-cell interactions during embryogenesis, more specifically regulating mesoderm differentiation and osteogenesis. The Wnts have also been shown to have putative roles in the regulation of adult stem cells. Recombinant murine Wnt-3a is active in human cells. Recombinant murine Wnt-3a is a monomeric glycoprotein. Murine Wnt-3a migrates at an apparent molecular weight of approximately 35 kDa.
Form	Colourless liquid.
Bio-activity	ED50 of Wnt-3a is 12.5 - 25 ng/ml as determined by assay of mouse mammary epithelial cells (Eph4) with a TCF-fluorescent reporter.
Molecular Mass	35 kDa
Endotoxin	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

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Purity	>70%
Stability	Wnt-3a is stable for at least 6 months when stored at -20°C. Store long term at -80°C. Withstands at least one freeze-thaw cycle. Aliquot before use.
Storage	-20°C
Storage Buffer	Centrifuge vial before opening. Supplied at a concentration of 20 ug/ml in phosphate buffered saline with 1% BSA, 0.1M NaCl and 1% CHAPS.

GENE INFORMATION

Gene Name	Wnt3a wingless-type MMTV integration site family, member 3A [<i>Mus musculus</i> (house mouse)]
Official Symbol	Wnt3a
Synonyms	Wnt3a; vt; Wnt-3a; wingless-type MMTV integration site family, member 3A; protein Wnt-3a; vestigial tail; wingless-related MMTV integration site 3A
Gene ID	22416
mRNA Refseq	NM_009522
Protein Refseq	NP_033548
UniProt ID	P27467
Chromosome Location	11 B1.3; 11 37.17 cM
Pathway	Basal cell carcinoma; Class B/2 (Secretin family receptors); Defective ACTH causes

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Obesity and Pro-opiomelanocortin deficiency (POMCD)

Function

frizzled binding; frizzled-2 binding; protein binding; protein domain specific binding

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