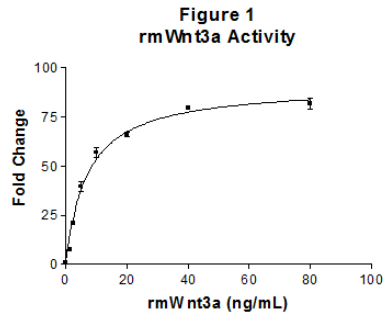




Recombinant Murine Wnt3a

Catalog Number:	rmW3aH
Source:	Chinese Hamster Ovary (CHO) cell line-derived
Sequences:	Ser19-Lys352
Synonyms:	Protein Wnt-3a; wingless-type MMTV integration site family, member 3A; WNT3A
Purity:	85 - 90% evaluated by SDS-PAGE under reducing conditions.
Predicted M.W.:	37 kDa
Actual M.W.:	41 kDa evaluated by SDS-PAGE under reducing conditions
Description	<p>Protein Wnt3a is a protein that is encoded by the WNT3A gene. The WNT gene family consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis, adipogenesis, etc. and in several other developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family. Mouse Wnt3a shows 96% amino acid identity to human Wnt3a protein.</p> <p>This protein was purified using a combination of ion exchange, affinity column with Wnt signaling inhibitor-bound sepharose beads, and followed by gel filtration.</p>
Concentration	10-100 µg/mL. Please refer to the concentration on the label of each vial

Activity: Wnt3a activity has been measured using TCF-based Wnt reporter stable cell line (Catalog: WRHEK293A-HWR). 10 ng/mL of Wnt3a (Lot: 02DEC2015) generate 50-fold increase of luciferase activity compared to control (buffer without Wnt3a). EC₅₀ is about 6 ng/mL.



Formulation Phosphate buffer pH 7.4-7.6, 1% CHAPS, 0.1% BSA.

Handling and Storage Keep the protein frozen until use. Refreeze aliquots at -20°C or below but avoid freeze-thaw circles.

To treat cell lines, dilute the protein solution at least 200 times in medium; to treat stem cells, dilute the protein solution at least 500 times in medium. Diluted Wnt proteins in medium or phosphate buffer can be stored at 4°C only for few days.

Mix the protein by pipetting up and down but not by vortexing.

Reference Desheng Lu and Dennis A. Carson. Inhibition of Wnt signaling and cancer stem cells. *Oncotarget* 2011; 2: 587 – 587

Taranjit S. Gujral, et al. A Noncanonical Frizzled2 Pathway Regulates Epithelial-Mesenchymal Transition and Metastasis. *Cell* 2014; 159: 844–856

Michael Kahn. Can we safely target the WNT pathway? *Nature Reviews Drug Discovery* 2014; 13: 513–532