

Active Recombinant Mouse Wnt3 and Sfrp1 Complex Protein

Cat. No. Wnt3-020M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Wnt3 (Gly22-Lys355) and Sfrp1 (Ser32-Lys314) Complex Protein was expressed in Chinese Hamster Ovary cell line.
Species	Mouse
Source	CHO
ProteinLength	Wnt3: 22-355 aa Sfrp1: 32-314 aa
Description	Wnt-3 is one of 19 vertebrate members of the Wingless-type MMTV integration site (Wnt) family of highly conserved cysteine-rich secreted glycoproteins that are important for normal developmental processes. Mouse Wnt-3 shares 99% and 100% amino acid (aa) identity with human and rat Wnt-3, respectively. It also shares 87% aa identity with mouse Wnt3a. Wnts bind to the cell surface Frizzled family receptors in conjunction with low-density lipoprotein receptor-related protein family receptors (LRP5 or 6) resulting in the stabilization of intracellular beta -catenin levels. As intracellular beta -catenin levels rise, it binds to TCF/LEF transcription factors, leading to expression of Wnt target genes. Wnts are known to bind to sFRPs, a family of secreted molecules that contain an N-terminal cysteine-rich domain (CRD) highly similar to the CRDs of the Frizzled family receptors. More than one molecule of sFRP is suggested to participate in the interaction with each Wnt molecule. Both sFRP-1 and sFRP-2 can inhibit Wnt-3a activity while sFRP-3 cannot.
Form	Non-covalent complex

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Molecular Mass	37 kDa (Wnt-3) & 33 kDa (sFRP-1)
Bio-activity	Measured by its ability to activate Wnt induced TCF reporter activity in HEK293 human embryonic kidney cells. The ED50 for this effect is 7.00-63.0 ng/mL.
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
N-terminal Sequence Analysis	Gly22 (Wnt-3) & Ser32 (sFRP-1)
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in MOPS and NaCl with Trehalose.
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	Wnt3 wingless-type MMTV integration site family, member 3 [Mus musculus (house mouse)]
Official Symbol	Wnt3

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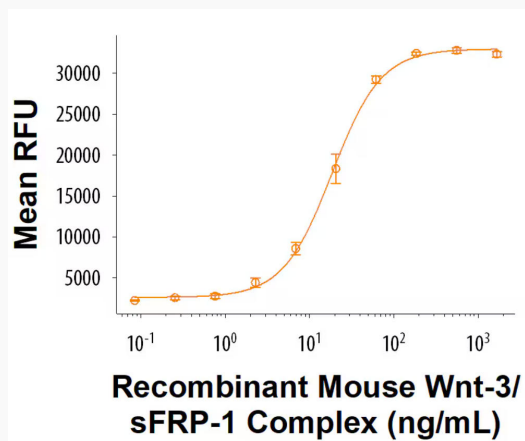
Synonyms	WNT3; wingless-related MMTV integration site 3; proto-oncogene Wnt-3; proto-oncogene Int-4; proto-oncogene protein Wnt-3; Int-4; Wnt-3;
Gene ID	22415
mRNA Refseq	NM_009521
Protein Refseq	NP_033547
UniProt ID	P17553
Gene Name 2	Sfrp1 secreted frizzled-related protein 1 [Mus musculus (house mouse)]
Official Symbol 2	Sfrp1
Synonyms 2	Sfrp1; secreted frizzled-related protein 1; sFRP-1; 2210415K03Rik; secreted frizzled-related protein 1; secreted frizzled-related sequence protein 1
Gene ID 2	20377
mRNA Refseq 2	NM_013834
Protein Refseq 2	NP_038862
UniProt ID 2	Q8C4U3

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