

Recombinant Human Wnt5b

Source:Human cell line-derivedSequences:Gln18-Lys359Synonyms:Protein Wnt-5B; wingless-type MMTV integration site family, member 5B; WNT5BPurity:75 % evaluated by SDS-PAGE under reducing conditionsPredicted M.W.:38 kDaActual M.W.:45 kDa evaluated by SDS-PAGE under reducing conditionsDescriptionThe 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
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regulation of cell fate and patterning during embryogenesis. Protein Wnt5b is a protein that is encoded by the WNT5B gene. This gene is a member of the non- canonical WNT gene family. Wnt5b protein can inhibit TCF-based Wnt signaling. This protein was purified using a combination of ion exchange, affinity column with Wnt signaling inhibitor-bound sepharose beads, and followed by gel
filtration. Concentration 10-100 μg/mL. Please refer to the concentration on the label of each vial

Activity:	The inhibitory activity of Wnt5b on the canonical Wnt pathway has been
	measured using TCF-based Wnt reporter stable cell line (Catalog: WRNIH3T3A)
	stimulated by mouse Wnt3a. IE $_{50}$ of Wnt5b is about 50 - 100 ng/mL in the
	presence of 1 ng/mL of mouse Wnt3a.

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 for few days only.
	Mix the protein by pipetting up and down but not by vortexing.
Reference	Nicenboim J., et al., Lymphatic vessels arise from specialized angioblasts within a venous niche. Nature 522, 56–61.
	Kanazawa A., et al., Wnt5b partially inhibits canonical Wnt/β-catenin signaling pathway and promotes adipogenesis in 3T3-L1 preadipocytes. Biochemical and Biophysical Research Communications 2005; 330: 505–510.