

Active Recombinant Human Wingless-Type MMTV Integration Site Family, Member 4

Cat. No. WNT4-516H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WNT4 protein was expressed in Chinese Hamster Ovary cell line. Ser23-Arg351.
Species	Human
Source	CHO
Protein Length	23-351 a.a.
Description	WNT4 is a 38-42kDa member of the Wnt family of secreted glycoproteins, which act as short range signaling molecules via Frizzled receptors and a cascade of intracellular signals invertebrate embryogenesis. Human WNT4 is synthesized as a 351 amino acid (aa) precursor with a 22 aa signal sequence and a 329 aa mature chain. The mature chain contains two potential sites for N-linked glycosylation. Relative to other members of the Wnt family, WNT4 contains 83 conserved aa, including 21 cysteines.
Form	Lyophilized from a 0.2 µm filtered solution in PBS, EDTA and CHAPS with BSA as a carrier protein.
N-terminal Sequence	Ser23
Molecular Weight	39.1 kDa
Activity	Measured by its ability to induce alkaline phosphatase production by MC3T3E1

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	mouseosteoblastic cells. The typical ED50 for this effect is 25-100 ng/mL.
Endotoxin Level	< 1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	42 - 80 kDa, reducing conditions.
Purity	> 60%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	50 µg/mL in PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	WNT4 wingless-type MMTV integration site family, member 4 [Homo sapiens]
Official Symbol	WNT4
Synonyms	WNT4; wingless-type MMTV integration site family, member 4; WNT-4; SERKAL; protein Wnt-4; UNQ426/PRO864
Gene ID	54361
mRNA Refseq	NM_030761
Protein Refseq	NP_110388
MIM	603490

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UniProt ID	P56705
Chromosome Location	1p36.23-p35.1
Pathway	Basal cell carcinoma; Class B/2 (Secretin family receptors); DNA damage response (only ATMdependent); GPCR ligand binding; HTLV-I infection; Hedgehog signaling pathway; Melanogenesis; Pathways in cancer; Signal Transduction; Signaling by GPCR; Wnt Signaling Pathway; Wnt Signaling Pathway NetPath; Wnt Signaling Pathway and Pluripotency; Wnt signaling pathway
Function	G-protein coupled receptor binding; extracellular matrix structural constituent; frizzled binding; transcription corepressor activity

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