

Active Recombinant Full Length Human WNT4 Protein, N-Fc-Flag-tagged

Cat. No. WNT4-517HFL Lot. No. (See product label)

SPECIFICATION

Species Human

Source HEK293

ProteinLength Full Length

Description

The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is a member of the WNT gene family, and is the first signaling molecule shown to influence the sex-determination cascade. It encodes a protein which shows 98% amino acid identity to the Wnt4 protein of mouse and rat. This gene and a nuclear receptor known to antagonize the testis-determining factor play a concerted role in both the control of female development and the prevention of testes formation. This gene and another two family members, WNT2 and WNT7B, may be associated with abnormal proliferation in breast tissue. Mutations in this gene can result in Rokitansky-Kuster-Hauser syndrome and in SERKAL syndrome.

Form Sterile PBS, pH 7.4

Bio-activity Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The typical ED50 for this effect is 20-60 ng/ml.

Molecular Mass 63 kDa

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AA Sequence

PKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEV
 KFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKAL
 PAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNG
 QPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKS
 LSLSPGKDYKDDDDKSNWLYLAKLSSVGSISEEETCEKLGKLIQRQVQMCKRNLEV
 MDSVRRGAQLAIEECQYQFRNRRWNCSTLDSLPLVFGKVVTQGTREAAFYAISSAG
 VAFVTRACSSGELEKCGCDRTVHGVSPQGFQWSGCSDNIAYGVAFSQSFDVRE
 RSKGASSSRALMNLHNNEAGRKAILTHMRVECKCHGVSGSCEVKTCWRVPPFRQ
 VGHALKEKFDGATEVEPRRVGSSRALVPRNAQFKPHTDEDLVYLEPSPDFCEQDM
 RSGVLGTRGRTCNKTSKAIDGCELLCCGRGFHTAQVELAERCSCKFHWCCFVKCR
 QCQRLVELHTCR

Endotoxin <1EU/ug by LAL

Purity >90% by SDS-PAGE.

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.17mg/ml

GENE INFORMATION

Gene Name [WNT4 Wnt family member 4 \[Homo sapiens \(human\) \]](#)

Official Symbol [WNT4](#)

Synonyms WNT4; Wnt family member 4; WNT-4; SERKAL

Gene ID [54361](#)

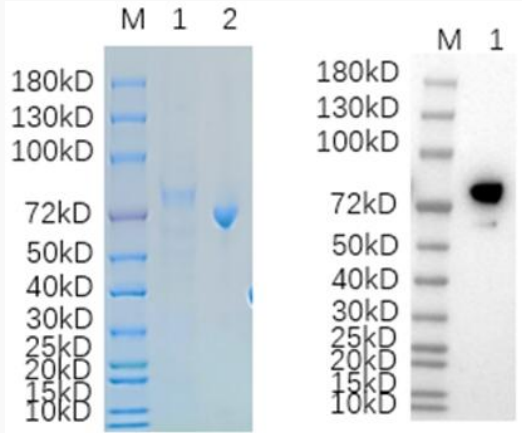
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mRNA Refseq	NM_030761.5
Protein Refseq	NP_110388.2
MIM	603490
UniProt ID	P56705

SDS-PAGE



Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-human IgG Goat antibody) analysis profiles of purified.

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