

Active Recombinant Human WNT4 Protein

Cat. No. WNT4-117H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human Wnt-4 protein containing 329aa (Ser23-Arg351) without tag was expressed in E. coli.
Species	Human
Source	E.coli
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.
Bio-activity	Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The typical ED50 for this effect is 20-100 ng/mL.
Molecular Mass	39 kDa
Product-Related	23-351

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Proteins**Storage** At -80 centigrade. Avoid repeated freeze-thaw cycles.**Storage Buffer** PBS**GENE INFORMATION****Gene Name** [WNT4 Wnt family member 4 \[Homo sapiens \(human\) \]](#)**Official Symbol** [WNT4](#)**Synonyms** WNT4; Wnt family member 4; WNT-4; SERKAL; protein Wnt-4; Names; wingless-type MMTV integration site family, member 4**Gene ID** [54361](#)**mRNA Refseq** [NM_030761](#)**Protein Refseq** [NP_110388](#)**MIM** [603490](#)**UniProt ID** [P56705](#) Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA