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32-20416: Recombinant Human Wnt-1(Discontinued)

Reactivity : Human, Monkey, Mouse
Alternative Name : INT-1, Wnt-1 proto-oncogene protein (precursor)

Description

Source:E.coli Wnt-1 is a secreted protein that signals through the Frizzled family of cell surface receptors, and is required for normal embryonic development. Wnt-1 activation induces a complex signaling cascade that ultimately leads to the increased expression of over fifty genes. An important component of Wnt-1 signaling is the stabilization, and resulting accumulation, of the intracellular signaling protein, Beta -catenin. Wnt signaling induces and maintains the transformed phenotype, and, in certain embryonic cell lines, supports self-renewal in the absence of significant differentiation. Elevated levels of Wnt proteins are associated with tumorigenesis, and are present in numerous human breast cancers. Mature human Wnt-1 is a glycosylated protein containing 343 amino acid residues. Recombinant Human Wnt-1 is a 38.4 kDa, non-glycosylated protein containing 343 amino acid residues.

Product Info

Amount : 2 µg / 10 µg
Purification : Purity:>= 98% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : ANSSGRWWGI VNVASSTNLL TDSKSLQLVL EPSLQLLSRK QRRLIRQNPG ILHSVSGGLQ SAVRECKWQF RNRRWNCPTA PGPHLFGKIV NRGCRETAFI FAITSAGVTH SVARSCSEGS IESCTCDYRR RGPGGPDWHW GGCSDNIDFG RLFGREFVDS GEKGRDLRFL MNLHNNEAGR TTVFSEMRQE CKCHGMSGSC TVRTCWMRLP TLRAVGDVLR DRFDGASRVL YGNRGSNRAS RAELLRLEPE DPAHKPPSPH DLVYFEKSPN FCTYSGRLGT AGTAGRACNS SSPALDGCEL LCCGRGHRTR TQRVTERCNC TFHWCCHVSC RNCTHTRVLH ECL

Application Note

TheÃ Â ED_{50}Ã Â was determined by its ability to enhance BMP-2 induced alkaline phosphatase production by murine ATDC5 cells. The expectedÃ Â $ED_{50}$for this effect is 1.5 - 2.5 ng/ml in the presence of 200 ng/ml of human BMP-2.