

Recombinant Human Wnt-1

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|---------------------|--|-------|
| CATALOG #: | 4754-10 | 10 µg |
| | 4754-50 | 50 µg |
| | 4754-1000 | 1 mg |
| LOT #: | _____ | |
| SOURCE: | <i>E. coli</i> | |
| PURITY: | >98% by SDS-PAGE and HPLC analysis | |
| ENDOTOXIN: | Endotoxin level is <0.1 ng per µg. | |
| MOL. WEIGHT: | 38.4 kDa | |
| FORMULATION: | Sterile filtered and lyophilized with no additives | |

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 µg/µl. The solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

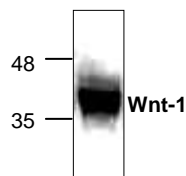
The lyophilized protein is best-stored desiccated below 0°C. Reconstituted protein should be stored at working aliquots at -20°C.

DESCRIPTION:

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-catenine. 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.

Biological Activity:

The ED₅₀ was determined by its ability to enhance BMP-2 induced alkaline phosphatase production by murine ATDC5 cells. The expected ED₅₀ for this effect is 1.5 - 2.5 ng/ml in the presence of 200 ng/ml of human BMP-2.



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Purity of recombinant Wnt-1 (2 µg) was analyzed by reduced SDS-PAGE electrophoresis.

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