

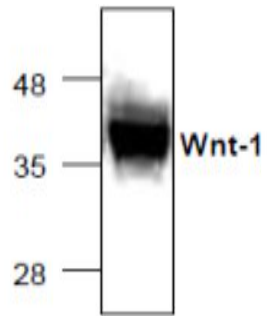
## WNT1

### Recombinant Human Wingless-Type MMTV Integration Site Family Member 1

|                                 |   |                  |                          |
|---------------------------------|---|------------------|--------------------------|
| <b>Catalog No.</b>              | CRW001A<br>CRW001B<br>CRW001C   | <b>Quantity:</b> | 10 µg<br>50 µg<br>1.0 mg |
| <b>Alternate Names:</b>         | Human WNT-1, WNT-1, WNT1, WNT 1, h-WNT-1, rh-WNT-1, recombinant human WNT -1, recombinant WNT-1, WNT  |                  |                          |
| <b>Description:</b>             | <p>WNT1 is a secreted protein that signals through the Frizzled family of cell surface receptors and is required for normal embryonic development. WNT1 activation induces a complex signaling cascade that ultimately leads to the increased expression of over fifty genes. An important component of WNT1 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 WNT1 is a glycosylated protein containing 343 amino acid residues. Recombinant human WNT1 is a non-glycosylated protein containing 343 amino acid residues.</p> |                  |                          |
| <b>Gene ID:</b>                 | 7471  |                  |                          |
| <b>Source:</b>                  | <i>E. coli</i>  |                  |                          |
| <b>Molecular Weight:</b>        | 38.4 kDa  |                  |                          |
| <b>Formulation:</b>             | Lyophilized from a sterile filtered solution without additives  |                  |                          |
| <b>Purity:</b>                  | >98% by SDS-PAGE and HPLC   |                  |                          |
| <b>Endotoxin Level:</b>         | < 0.1 ng/µg of WNT1   |                  |                          |
| <b>Biological Activity:</b>     | <p>The ED<sub>50</sub> was determined by its ability to enhance BMP2 induced alkaline phosphatase production by mouse ATDC5 cells. The expected ED<sub>50</sub> for this effect is 1.5-2.5 ng/mL in the presence of 200 ng/mL of human BMP2.</p>  |                  |                          |
| <b>Reconstitution:</b>          | <p><b>Centrifuge vial prior to opening.</b> First add sterile distilled water to the vial to fully solubilize the protein to a concentration of 0.1-1.0 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.</p>  |                  |                          |
| <b>Storage &amp; Stability:</b> | <p>Store lyophilized protein at -20°C. After reconstitution the protein is stable for 1 week at 4°C or for longer term in working aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b></p>   |                  |                          |



Purity of recombinant Wnt-1 (2  $\mu$ g) analyzed by reduced SDS-PAGE



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