



# Recombinant Human WNT1

Cat No:HR2R2072

For research use only

## Overview

|                    |  |
|--------------------|--|
| Quantity           | 10 ?g  |
| Gene Symbol        | WNT1   |
| Gene ID            | 7471   |
| Accession          | P04628   |
| Alternative Name   | Proto-oncogene Int-1 homolog, Wnt-1<br>Recombinant Human Proto-oncogene Wnt-1 (WNT1)   |
| Species            | Human  |
| Source             | E. coli  |
| Description        | <p>Wnt-1 is a secreted protein that signals through the frizzled family of seven transmembrane receptors. Wnt-1 activation induces a complex signaling cascade that ultimately leads to the up-regulation of over fifty genes. Stabilization and resulting accumulation of the intracellular signaling protein ?-catenin is an important aspect of Wnt-1 signaling. While known to play a role as a developmental protein, elevated levels of Wnt proteins have also been associated with tumorigenesis.</p> |
| Functions          | 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 200ng/ml of human BMP-2.   |
| Formulation        | Lyophilized from a 0.2 ?m filtered solution in Tris and DTT  |
| Solubility         | Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1 - 1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (0.1% BSA) and store in working aliquots at -20 to -80?C  |
| Appearance         | Lyophilized Powder   |
| Molecular Weight   | 38.5   |
| Purity             | >95% as determined by SDS-PAGE   |
| Concentration      | <1.0 EU/?g of recombinant protein as determined by the LAL method  |
| Shipping Condition | Ambient Temperature  |
| Storage Condition  | The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.  |