

Recombinant Human WNT1

Cat No:HR2R2072

For research use only

Overview

Quantity	10 µg
Gene Symbol	WNT1
Gene ID	7471
Accession	P04628
Alternative Name	Proto-oncogene Int-1 homolog, Wnt-1 Recombinant Human Proto-oncogene Wnt-1 (WNT1)
Species	Human
Source	E. coli
Description	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 β -catenin is an important aspect of Wnt-1 signaling. While known to play in role as a developmental protein, elevated levels of Wnt proteins have also been associated with tumorigenesis.
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 µm 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/µg 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.