

## WNT-1 Human E. coli

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> E. coli	RBG10351002	(2 µg)
<b>Species:</b> Human	RBG10351010	(10 µg)
<b>Other names:</b> INT-1	RBG10351100	(100 µg)

### 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-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.

### Research topic

Immune Response, Infection and Inflammation, Oncology

### Amino Acid Sequence

ANSSGRWWGI VNVASSTNLL TDSKSLQLVL EPSLQLLSRK QRRLIRQNPQ ILHSVSGGLQ SAVRECKWQF RNRWNCPTA  
PGPHLFGKIV NRGCRETAFI FAITSAGVTH SVARSCSEGS IESCTCDYRR RGPGGPDWHW GCSDNIDFG RLFGRFVDS  
GEKGRDLRFL MNLHNNEAGR TTVFSEMRQE CKCHGMSGSC TVRTCWMRLP TLRAVGDVLR DRFDGASRVL YGNRGSNRAS  
RAELLRLPEE DPAHKPPSPH DLVYFEKSPN FCTYSGRGLGT AGTAGRACNS SSPALDGCCEL LCCGRGHRTR TQVTERCNC  
TFHWCCHVSC RNCTHTRVLH ECL

### Source

E. coli

### Purity

98%

### Biological Activity

The ED<sub>50</sub> was determined by its ability to enhance BMP-2 induced alkaline phosphatase production by murine 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 BMP-2.

### Storage, Stability/Shelf Life

-20°C

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