

Datasheet: PHP183

Description:	RECOMBINANT HUMAN WNT-1
Name:	WNT-1
Other names:	WNT-1 PROTO-ONCOGENE PROTEIN
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Functional Assays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant protein - lyophilized
Reconstitution	Reconstitute with 100 µl distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Purified recombinant Wnt-1 expressed in <i>E.coli</i>
Source	E.coli
Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	< 1.0 EU/ug
Approx. Protein	0.1 mg/ml

Concentrations

External Database Links

UniProt:

[P04628](#) [Related reagents](#)

Entrez Gene:

[7471](#) WNT1 [Related reagents](#)

Synonyms

INT1

Product Information

Wnt-1, formerly known as int-1, is a non-glycosylated secreted protein associated with the extracellular matrix, involved in normal embryonic development and particularly linked with breast cancer.

Wnt-1, which signals through binding to the Frizzled family of transmembrane receptors, was originally identified as a proto-oncogene implicated in carcinomas induced by the mouse mammary tumour virus (MMTV). Wnt-1 belongs to a family of Wnt genes involved in the dorso-ventricular development of the mesoderm during embryogenesis, with a restricted temporal and spatial pattern of expression.

Protein Molecular Weight

38.4 kDa (343 amino acid residues)

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.

Purity

>98% by SDS PAGE and HPLC

References

1. Gherghe, C.M. *et al.* (2011) Wnt1 is a proangiogenic molecule, enhances human endothelial progenitor function, and increases blood flow to ischemic limbs in a HGF-dependent manner. [FASEB J. 25: 1836-43.](#)
 2. Maguschak, K.A. & Ressler, K.J. (2011) Wnt signaling in amygdala-dependent learning and memory. [J Neurosci. 31 \(37\): 13057-67.](#)
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Storage

Prior to reconstitution store at +4°C.
After reconstitution store at -20°C.
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

3 months from date of reconstitution

Health And Safety Information

Material Safety Datasheet documentation #10268 available at:
10268: <https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf>

Regulatory

For research purposes only

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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