Datasheet: PHP177

BATCH NUMBER 170601

Description:	RECOMBINANT HUMAN INSULIN-LIKE GROWTH FACTOR I
Name:	IGF-I
Other names:	INSULIN-LIKE GROWTH FACTOR I
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	0.1 mg

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 1.0 ml 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 IGF-I expressed in *E.coli*
Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	< 1.0 EU/ug
Approx. Protein Concentrations	0.1 mg/ml

External Database Links	**UniProt:** P05019 Related reagents **Entrez Gene:** 3479 IGF1 Related reagents
Synonyms	IBP1
Product Information	IGF-I (Insulin-like Growth Factor I), is a secreted mitogenic polypeptide and member of the insulin gene family, produced primarily by the liver, which effects a wide range of cells and plays a key role in cell proliferation and growth, inhibition of apoptosis, and is linked with tumour cell growth. IGF-I signals through binding to the type 1 insulin-like growth factor receptor (IGF-1R) and also to the insulin receptor (IR), resulting in the activation of the AKT signalling pathway. IGF-I production is stimulated by growth hormone (GH). and can be hindered by GH insensitivity, deficiency in GH receptors or a malfunction in the post GH receptor signalling pathway.
Protein Molecular Weight	7.6 kDa
Activity	The ED_{50} was determined by a cell proliferation assay using FDC-P1 cells is < 2.0 ng/ml, corresponding to a specific activity of > 5 x 10^5 units/mg.
Purity	>98% by SDS PAGE/HPLC
References	1. Zhang X *et al.* (2015) Wnt signaling regulates the stemness of lung cancer stem cells and its inhibitors exert anticancer effect on lung cancer SPC-A1 cells. Med Oncol. 32 (4): 462.
Storage	Prior to reconstitution store at +4^{o}C. After reconstitution store at -20^{o}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: https://www.bio-rad-antibodies.com/SDS/PHP177 10268
Regulatory	For research purposes only

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

'M362362:200501'

Printed on 18 Jan 2024