

Datasheet: PHP105

Description:	RECOMBINANT HUMAN FGF BASIC
Name:	FGF BASIC
Other names:	FGF2
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	50 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							
	ELISA		•			0.2 - 0.4 ng/well		
	Western Blotting		•			1.5 - 3.0 ng/lane		
	Functional Assay	/S	-			0.1 - 10 ng/ml		
	Where this protein 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 protein for use in their own system using appropriate negative/positive controls.							
Target Species	Human							
Product Form	Purified recombinant protein expressed in <i>E. coli</i> - lyophilised							
	vial. Bio-Rad r	e taken durin ecommend tl	ng reconsti hat the via	tution as th I is gently n		s a film at the bottom of the n. Further dilutions may be		
Buffer Solution	TRIS buffered saline.							
Preservative Stabilisers	None present							
Endotoxin Level	<0.1ng/ug							
Approx. Protein Concentrations	Total protein concentration 0.1 mg/ml after reconstitution.							
External Database Links	UniProt:							
LIIIKS	P09038	Related rea	gents					
	Entrez Gene:							

	2247 FGF2 Related reagents
Synonyms	FGFB
Product Information	Recombinant Human FGF basic represents the C-terminal protion of human fibroblast growth factor 2 (A ¹³⁵ - S ²⁸⁸).
	Fibroblast growth factor basic (FGF basic), also known as FGF 2, is a heparin binding growth factor which has stimulatory activity on a range of cells of mesenchymal, neuroectodermal and endothelial origin. Note: FGF basic is sensitive to acidic conditions.
Protein Molecular Weight	17.2kD (154 amino acid sequence)
Activity	2 x 10 ⁶ units/mg
Purity	>95% by SDS PAGE and HPLC analysis
ELISA	This product may be used as a standard for ELISA applications with either <u>AHP1038</u> or <u>AHP1038B</u> .
Western Blotting	This product may be used as the positive control for Wester Blot applications with either <u>AHP1038</u> or <u>AHP1038B</u> .
References	 Svendsen, C.N. <i>et al.</i> (1997) Long-term survival of human central nervous system progenitor cells transplanted into a rat model of Parkinson's disease. Exp Neurol. 148: 135-46. Kim, T.H. <i>et al.</i> (2005) Recombinant human prothrombin kringle-2 induces bovine capillary endothelial cell cycle arrest at G0-G1 phase through inhibition of cyclin D1/CDK4 complex: modulation of reactive oxygen species generation and up-regulation of cyclin-dependent kinase inhibitors. Angiogenesis. 8: 307-14. van Beuningen, HM <i>et al.</i> (2014) Inhibition of TAK1 and/or JAK can rescue impaired chondrogenic differentiation of human mesenchymal stem cells in osteoarthritis-like conditions. Tissue Eng Part A. 20 (15-16): 2243-52. Pleumeekers, M.M. <i>et al.</i> (2015) Intradiscal application of rhBMP-7 does not induce regeneration in a canine model of spontaneous intervertebral disc degeneration. Arthritis Res Ther. 17: 137. Pleumeekers, M.M. <i>et al.</i> (2015) Cartilage regeneration in the head and neck area: Combination of ear or nasal chondrocytes and mesenchymal stem cells improves cartilage production: Cell combinations for cartilage production. Plast Reconstr Surg. Aug 10. [Epub ahead of print] Dimitrellos, V. <i>et al.</i> (2015) Long-term expansion, enhanced chondrogenic potential, and suppression of endochondral ossification of ault human MSCs via WNT signaling modulation. Stem Cell Reports. 4 (3): 459-72. Lolli A <i>et al.</i> (2016) Silencing of anti-chondrogenic microRNA-221 in human mesenchymal stem cells promotes cartilage repair <i>in vivo</i>. Stem Cells. Mar 1. [Epub ahead of print] de Kroon, L. M. G. <i>et al.</i> (2016) Activin and Nodal Are Not Suitable Alternatives to TGF for Chondrogenic Differentiation of Mesenchymal Stem Cells Cartilage. Sep 7 [Epub ahead of print] Clear, M.A. <i>et al.</i> (2016) Expression of CD105 on expanded mesenchymal stem cells does not

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		Storage in frost-free free			ed freezing and thawing as this			
Storage		Prior to reconstitution store at +4°C. Following reconstitution store at -20°C. This product should be stored undiluted.						
					ssue-derived and bone-marrow- / chondrocytes in co-culture. <u>PLo</u>			
	16. Bach, F.C. <i>et al.</i> (2017) Link-N: The missing link towards intervertebral disc repair is species- specific. <u>PLoS One. 12 (11): e0187831.</u>							
		15. Le, B.Q. <i>et al.</i> (2017) An Approach to In Vitro Manufacturing of Hypertrophic Cartilage Matrix for Bone Repair. <u>Bioengineering (Basel). 4 (2)Apr 20 [Epub ahead of print].</u>						
			Extracellular Matrix Produc	•	•			
		incorporation. Biomater	Res. 21: 6.		he Identification of Compounds			
		13 Podrigues Al et al	. (2017) Calcium phosphate		evoloring methods of			
		Interaction In Vitro. Tiss	ue Eng Part A. 22 (17-18):	-	ge-Mesenchymal Stem Cell			

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