

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.abdserotec.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			0.2 - 0.4 ng/well
Western Blotting	■			1.5 - 3.0 ng/lane
Functional Assays	■			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 *E. coli* - lyophilised

Reconstitution

Reconstitute with 0.5ml Tris (0.5mM, pH7.6). Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. AbD Serotec recommend that the vial is gently mixed after reconstitution. Further dilutions may be prepared in a buffer containing a carrier protein (eg 0.1% BSA).

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:

[P09038](#) FGF2_HUMAN [Related reagents](#)

Entrez Gene:

[2247](#) FGF2 [Related reagents](#)

Synonyms

FGFB

Product Information

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 AHP1038 or AHP1038B .
Western Blotting	This product may be used as the positive control for Wester Blot applications with either AHP1038 or AHP1038B .
References	<ol style="list-style-type: none"> 1. 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. 2. 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.
Storage	<p>Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10308 available at: http://www.abdserotec.com/uploads/MSDS/10308.pdf
Regulatory	For research purposes only

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