

## Datasheet: PHP031

<b>Description:</b>	RECOMBINANT HUMAN FGF ACIDIC
<b>Name:</b>	FGF ACIDIC
<b>Other names:</b>	FGF 1
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	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](http://www.abdserotec.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA			■	
Functional Assays	■			

Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the reagent for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified - lyophilised
<b>Reconstitution</b>	Reconstitute with 50ul of 5mM Sodium Phosphate, pH 8.0
<b>Note</b>	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 vortexed after reconstitution and microcentrifuged before use.
<b>Preparation</b>	Recombinant protein expressed in <i>E. coli</i> .
<b>Preservative Stabilisers</b>	None present
<b>Endotoxin Level</b>	<0.1 ng/ug
<b>Approx. Protein Concentrations</b>	1 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05230</a> FGF1_HUMAN <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2246</a> FGF1 <a href="#">Related reagents</a></p>
<b>Synonyms</b>	FGFA
<b>Product Information</b>	Human FGF acidic, also known as FGF 1 (fibroblast growth factor 1), is a member of the heparin-binding growth factor family, widely distributed in the peripheral and central nervous systems.

FGF 1 acts as a potent neurotrophic factor, playing a key role during prenatal development and postnatal growth/regeneration and is dependent upon interactions with heparin sulfate (HS) proteoglycans located on cell

surfaces and in the extracellular matrix, and the four high affinity tyrosine kinase receptors, designated FGFR-1,-2,-3 and -4.

Bioactivity was determined by the dose-dependent stimulation of thymidine uptake by FGF receptor-expressing BaF3 cells. The ED<sub>50</sub> is <10ng/ml.

---

<b>Protein Molecular Weight</b>	15.8 kD (140 Amino Acid Sequence)
---------------------------------	-----------------------------------

---

<b>Activity</b>	1 x 10 <sup>5</sup> units/mg
-----------------	------------------------------

---

<b>Purity</b>	>95% by SDS PAGE and HPLC analysis
---------------	------------------------------------

---

<b>Storage</b>	Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.  This product should be stored undiluted.  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.
----------------	--

---

<b>Shelf Life</b>	3 months from date of reconstitution.
-------------------	---------------------------------------

---

<b>Health And Safety Information</b>	Material Safety Datasheet Documentation #10277 available at: <a href="http://www.abdserotec.com/uploads/MSDS/10277.pdf">http://www.abdserotec.com/uploads/MSDS/10277.pdf</a>
--------------------------------------	---

---

<b>Regulatory</b>	For research purposes only
-------------------	----------------------------

---

**North & South America** Tel: +1 800 265 7376  
Fax: +1 919 878 3751  
Email: [sales.us@abdserotec.com](mailto:sales.us@abdserotec.com)

**Worldwide**

Tel: +44 1865 852 700  
Fax: +44 1865 852 739  
Email: [sales@abdserotec.com](mailto:sales@abdserotec.com)

**Europe**

Tel: 00800 2255 4223  
Fax: 00800 2329 2223  
Email: [sales.eu@abdserotec.com](mailto:sales.eu@abdserotec.com)

'M229718:130108'

**Printed on 30 May 2013**