

## Recombinant Human FGFacidic (Fibroblast Growth Factor acidic)

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### Product Description

FGFacidic is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGFacidic is a non-glycosylated heparin binding growth factor that is expressed in the brain, kidney, retina, smooth muscle cells, bone matrix, osteoblasts, astrocytes and endothelial cells. FGFacidic has the ability to signal through all the FGF receptors. Recombinant Human FGFacidic is a 16.8 kDa protein consisting of 141 amino acid residues.

### Typical Specifications

<b>Species</b>	Human
<b>Expression</b>	E. coli Cell Expressed
<b>Activity</b>	<u>Assay 1</u> : Typically $\leq 10$ ng/mL ED <sub>50</sub> <u>Assay 2</u> : Typically $\leq 0.5$ ng/mL ED <sub>50</sub>
<b>Purity</b>	$\geq 95\%$
<b>Endotoxin</b>	$< 1.0$ EU/ $\mu$ g
<b>Molecular Mass</b>	16.8 kDa
<b>Formulation</b>	5 mM Sodium Phosphate, pH 8.0 + 100 mM NaCl
<b>Country of Origin</b>	USA

### Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

### Activity Assay

Assay#1: Determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors.

Assay#2: Determined by a cell proliferation assay using balb/c 3T3 cells.

### AA Sequence

MFNLPPGNYK	KPKLLYCSNG	GHFLRILPDG
TVDGTRDRSD	QHIQLQLSAE	SVGEVYIKST
ETGQYLAMDT	DGLLYGSQTP	NEECLFLERL
EENHYNTYIS	KKHAEKNWVW	GLKKNNGSCKR
GPRTHYGQKA	ILFLPLPVSS	D

### Reconstitution Buffer

Centrifuge the vial prior to opening. Reconstitute in 5mM Sodium Phosphate, pH 8.0 to a concentration of  $< 0.5$  mg/ml. Do not vortex.

### Storage

This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% HSA) and store in working aliquots at -20°C to -80°C.

#### Limited Use and Restrictions

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