

Recombinant Zebrafish fgf2 Protein

Cat. No. fgf2-08Z Lot. No. (See product label)

SPECIFICATION

Product Overview	<p>Recombinant zebrafish FGF-2 (bFGF) protein without tag was expressed in E. coli. Animal-free (AOF) and carrier protein-free.</p> <p>Mass spectrometry: single species with expected mass.</p> <p>Recovery from stock vial: >95%</p>
Species	Zebrafish
Source	E.coli
Description	<p>Predicted to enable fibroblast growth factor receptor binding activity and growth factor activity. Acts upstream of or within Kupffer's vesicle development. Predicted to be located in extracellular region. Predicted to be active in cytoplasm; extracellular space; and nucleus. Is expressed in brain; eye; forerunner cell group; and kidney. Human ortholog(s) of this gene implicated in several diseases, including Parkinsonism; corneal neovascularization; diabetic neuropathy; gastric ulcer; and impotence. Orthologous to human FGF2 (fibroblast growth factor 2).</p>
Molecular Mass	17 kDa
Endotoxin	<0.005 EU/μg protein (below level of detection)
Applications	Propagation of mouse ES cells
Storage	Prepare single use aliquots, add carrier protein if desired, store frozen at -20 or -80 centigrade

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer Frozen in PBS

GENE INFORMATION

Gene Name [fgf2 fibroblast growth factor 2 \[Danio rerio \(zebrafish\) \]](#)

Official Symbol [fgf2](#)

Synonyms FGF2; fibroblast growth factor 2; BFGF; FGF-2; HBGF-2; fibroblast growth factor 2; basic fibroblast growth factor; fibroblast growth factor 2 (basic); heparin-binding growth factor 2

Gene ID [404231](#)

mRNA Refseq [NM_212823](#)

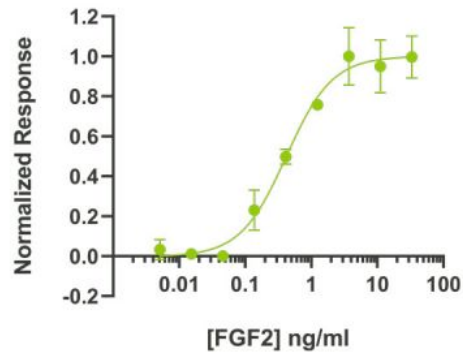
Protein Refseq [NP_997988](#)

UniProt ID [B3DGE3](#)

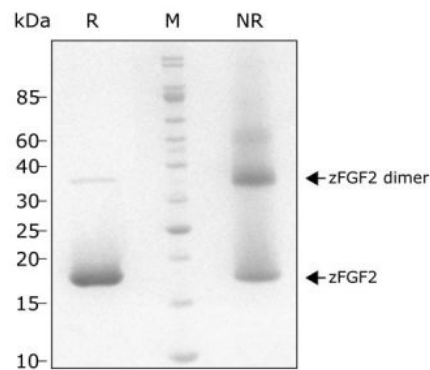
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Bioactivity


Zebrafish FGF2 activity is determined using the serum response element luciferase reporter assay in transfected HEK293T cells. Cells are treated in triplicate with a serial dilution of FGF2 for 6 hours. Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity. EC₅₀ = 0.42 ng/mL (24.7 pM).

Purity


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FGF2 migrates as major band at 17 kDa in non-reducing conditions and upon reduction was resolved using 15% w/v SDS-PAGE in reduced and non-reduced conditions and stained with Coomassie Brilliant Blue R250.

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