

# Recombinant Rat FGF2 Protein (His Tag)

Catalog Number: PDER100006



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

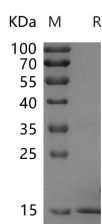
## Description

<b>Synonyms</b>	Basic fibroblast growth factor; Basic fibroblast growth factor bFGF; bFGF; FGF 2; FGF B; FGF-2; Fgf2; FGF2 basic; FGF2; FGFB; Fibroblast growth factor 2 (basic); Fibroblast growth factor 2; Fibroblast growth factor; basic; HBGF 2; HBGF-2; HBGF2; HBGH 2; HBGH2; Heparin binding growth factor 2 precursor; Heparin-binding growth factor 2; Prostatropin
<b>Species</b>	Rat
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Pro10-Ala144
<b>Accession</b>	P13109-1
<b>Calculated Molecular Weight</b>	15.2 kDa
<b>Observed molecular weight</b>	17.5 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4., 5% trehalose, 5% mannitol, 0.01% tween-80. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the print
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons,

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resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.

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