

## Recombinant Rat FGF2 Protein (His Tag)

**Catalog Number:** PDER100150

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

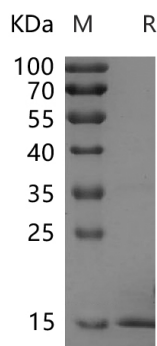
### Description

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| <b>Species</b>       | Rat                                                                  |
| <b>Source</b>        | E.coli-derived Rat FGF2 protein Pro10-Ala144, with an N-terminal His |
| <b>Calculated MW</b> | 15.2 kDa                                                             |
| <b>Observed MW</b>   | 17.5 kDa                                                             |
| <b>Accession</b>     | P13109-1                                                             |
| <b>Bio-activity</b>  | Not validated for activity                                           |

### Properties

|                       |                                                                                                                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95% as determined by reducing SDS-PAGE.                                                                                                                                                                                              |
| <b>Endotoxin</b>      | < 10 EU/mg of the protein as determined by the LAL method                                                                                                                                                                              |
| <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 a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.                                                                                                                                                  |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.                                                                                               |

### 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, 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.

### For Research Use Only