

# Recombinant Swine FGF-2 protein(His Tag)

Catalog Number:PKSS000016



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

## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | Fgfb;bFGF;FGF-basic   |
| <b>Species</b>                     | Porcine   |
| <b>Expression Host</b>             | E.coli  |
| <b>Sequence</b>                    | Ala 2-Ser 155   |
| <b>Accession</b>                   | NP_001392443  |
| <b>Calculated Molecular Weight</b> | 18.1 kDa  |
| <b>Observed molecular weight</b>   | 17 kDa  |
| <b>Tag</b>                         | N-His   |
| <b>Bioactivity</b>                 | Measure by its ability to induce proliferation in 3T3 cells. The ED <sub>50</sub> for this effect is < 2 ng/mL. |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 98 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 0.1 EU per µg 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 sterile PBS with 0.01% sarkosyl, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Background

Fibroblast growth factor 2(FGF2) is a secreted protein and belongs to the heparin-binding growth factors family. FGF2 is produced by epithelial; tumor and other cell types. It involved in developmental processes and regulates differentiation; proliferation; and migration; FGF2 is a critical factor for growing embryonic stem cells in culture without inducing differentiation. FGF2 has a high affinity for heparan sulfate and binding is a step in the FGF basic activation of FGFR tyrosine kinase.

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