Recombinant Swine FGF-2 protein(His Tag)

Catalog Number: PKSS000016

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

Description

Species	Porcine
Source	E.coli-derived Porcine FGF-2 protein Ala 2-Ser 155, with an N-terminal His
Calculated MW	18.1 kDa
Observed MW	17 kDa
Accession	NP_001392443
Bio-activity	Measure by its ability to induce proliferation in 3T3 cells. The ED_{50} for this effect is <2 ng/mL.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per μg of the protein as determined by the LAL method.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS with 0.01% sarkosyl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	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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