

Recombinant Rat Keratinocyte Growth Factor-2/FGF-10

#R00322

Size: 5 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Fibroblast growth factor 10 is a protein which belongs to the fibroblast growth factor (FGF) family and FGF family members are involved in a variety of biological processes such as embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. Like most other FGF family members, FGF-10 also has a heparin-binding domain and it plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. In addition, FGF-10 may play a role in wound healing and is required for normal branching morphogenesis. Recombinant rat FGF-10 contains a 179 amino acids and it shares 94 % and 100 % a.a. sequence identity with human and murine FGF-10.

AA Sequence

QALGQDMVSPEATNSSSSSSSSSSSSSFSSPSSAGR
HVRSYNHLQGDVRWRKLFSTKYFLKIEKNGKVS

KKENCYPYSILEITSVEIGVVAVKAINSNYLLAMNKKGKL
YGSKEFNNDCKLKERIEENGYN TYASFNWQHNGRQ
MYVALNGKGAPRRGQKTRRKNTSAHFLPMVVHS

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Accession	P70492
GeneID	25443
Species	Rat
Source	Escherichia coli.
Molecular Weight	Approximately 20.0 kDa, a single non-glycosylated polypeptide chain containing 179 amino acids.
Purity	≥95% by SDS-PAGE analysis.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using monkey 4MBr-5 cells is less than 120 ng/ml, corresponding to a specific activity of > 8.3 × 10 ³ IU/mg.
Physical	Sterile Filtered White Lyophilized

Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 500 mM NaCl, pH 8.0, 3 % trehalose, 0.02% Tween-80.
Endotoxin	Less than 1 EU/µg of rRtKGF-2/FGF-10 as determined by LAL method.