

Recombinant Rat KGF-2/FGF-10

Information

Gene ID	25443
Accession #	P70492
Alternate Names	
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 20.0 kDa, a single non-glycosylated polypeptide chain containing 179 amino acids.
AA Sequence	QALGQDMVSP EATNSSSSSS SSSSSSSFSS PSSAGRHVRS YNHLQGDVRW RKLFSFTKYF LKIEKNGKVS GTKKENCYPYS ILEITSVEIG VVAVKAINSN YYLAMNKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVHVS
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 500 mM NaCl, pH 7.4, 5 % trehalose.
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.
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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5 µg	100 µg	500 µg
Recombinant Rat KGF-2/FGF-10	5 µg	100 µg	500 µg

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Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rRtKGF-2/FGF-10 as determined by LAL method.

Description

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.

Reference

1. Emoto H, Tagashira S, Mattei MG, et al. 1997. J Biol Chem. 272:23191-4.
2. Tagashira S, Harada H, Katsumata T, et al. 1997. Gene. 197:399-404.
3. Carninci P, Kasukawa T, Katayama S, et al. 2005. Science. 309:1559-63.
4. Igarashi M, Finch PW, Aaronson SA. 1998. J Biol Chem. 273:13230-5.

APEx BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com