Datasheet

Cat. No. P1143

Recombinant Human KGF-2/FGF-10

Information

Gene ID	2255
Accession #	O15520
Alternate Names	
Source	*Escherichia coli.*
M.Wt	Approximately 19.1 kDa, a single, non-glycosylated polypeptide chain containing 169 amino acids.
AA Sequence	LGQDMVSPEA TNSSSSSFSS PSSAGRHVRS YNHLQGDVRW RKLFSFTKYF LKIEKNGKVS GTKKENCPYS ILEITSVEIG VVAVKAINSN YYLAMNKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVVHS
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 2 × PBS, pH 7.4.
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 ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 106 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 Human KGF-2/FGF-10	5 μg	100 μg	500 μg

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.

Quality Control

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

Description

Fibroblast growth factor 10 belongs to the fibroblast growth factor (FGF) family which is 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 human FGF-10 contains a 208 amino acids and it shares 92 % and 95 % amino acid sequence identity with murine and rat FGF-10. Defects in FGF-10 are the cause of autosomal dominant aplasia of lacrimal and salivary glands and lacrimo-auriculo-dento-digital syndrome.

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.

5. Entesarian M, Matsson H, Klar J, et al. 2005. Nat Genet. 37:125-7.

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