

Recombinant Human Fibroblast Growth Factor 13

Information

Gene ID	2258
Accession #	Q92913
Alternate Names	FHF-2
Source	Escherichia coli.
M.Wt	Approximately 27.6 kDa, a single non-glycosylated polypeptide chain containing 245 amino acids.
AA Sequence	MAAAIASSLI RQKRQARERE KSNACKCVSS PSKGKTSCDK NKLNVFSRVK LFGSKKRRRR RPEPQLKGIV TKLYSRQGYH LQLQADGTID GTKDEDSTYT LFNLIPVGLR VVAIQGVQTK LYLAMNSEGY LYTSELFPE CKFKESVFEN YYVTYSSMIY RQQQSGRGWY LGLNKEGEIM KGNHVKKKNKP AAHFLPKPLK VAMYKEPSLH DLTEFSRSGS GTPTKSRSVS GVLNGGKSMS HNEST
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, pH 8.5, 500 mM NaCl.
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	Test in process.
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	5µg	100µg	500µg
Recombinant Human Fibroblast Growth Factor 13	5µg	100µg	500µg

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- 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	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuFGF-13 as determined by LAL method.

Description

Human FGF-13 encoded by the FGF13 gene, belongs to the FGF-11 subfamily which has four members FGF-11 to FGF-14. These four members were initially referred to as fibroblast growth factor homologous factors (FHF) because they have high sequence identity with the other FGFs but did not activate FGF receptors (FGFRs) and were not generally considered members of the FGF family. FGF-13 plays a crucial role in neuron polarization and migration in the cerebral cortex. In murine FGF-13 RNA was detected in developing central nervous system in cells, and was also found throughout the peripheral nervous system.

Reference

1. Gerhard DS, Wagner L, Feingold EA, et al. 2004. Genome Res. 14:2121-7
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3. Smallwood PM, Munoz-Sanjuan I, Tong P, et al. 1996. Proc Natl Acad Sci U S A. 93:9850-7
4. Olsen SK, Garbi M, Zampieri N, et al. 2003. J Biol Chem. 278:34226-36
5. Hartung H, Feldman B, Lovet H, et al. 1997. Mech Dev. 64:31-9.

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