

Recombinant Human Fibroblast Growth Factor 13

#R00112

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

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.

AA Sequence

MAAAIASSLIRQKRQAREREKSNACKCVSSPSKGKT
SCDKNKLNVSFVKLFGSKKRRRRRPEPQLKGIVTKL
YSRQGYHLQLQADGTIDGTDKDEDSTYTLFNLIPVGLR
VVAIQGVQTKLYLAMNSEGYLYTSELFTECKFKESV

FENYYVTYSSMIYRQQQSGRGWYLGLNKEGEIMKG
NHVKKNKPAAHFLPKPLKVAMYKEPSLHDLTEFSRSG
SGTPTKSRSVSGVLNGGKSMHNEST

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

Synonyms	FHF-2
Accession	Q92913
GeneID	2258
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 27.6 kDa, a single non-glycosylated polypeptide chain containing 245 amino acids.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Test in process.
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, pH 8.5, 500 mM

	NaCl.
Endotoxin	Less than 1 EU/μg of rHuFGF-13 as determined by LAL method.
