

Growth Factor Data Sheet

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FGF13 is a member of the Fibroblast Growth Factor family of proteins. It is one of four FGFs that act as intracellular signaling molecules, independent of FGF receptors. They have instead been shown to interact with voltage-gated ion channels and the MAPK scaffold protein, islet-brain 2. FGF13 is expressed in the developing and adult central nervous system and acts to stabilize microtubules. It is required for axon and leading process development, as well as neuronal migration. It is believed to be a candidate gene for syndromal and nonspecific forms of X-chromosome-linked intellectual disability (XLID).

Catalog Number Product Name	1140-13 FGF13, Human Recombinant Human Fibroblast Growth Factor 13 Fibroblast Growth Factor Homologous Factor 2 (FHF2) FGF-13
Source	<i>Escherichia coli</i>
MW	~27.6 kDa (245 amino acids)
Sequence	MAAAIASSLI RQKRQARERE KSNACKCVSS PSKGGTSCDK NKLNVFSRVK LFGSKKRRRR RPEPQLKGIV TKLYSRQGYH LQLQADGTID GTKDEDSTYT LFNLIPVGLR VVAIQGVQTK LYLAMNSEGY LYTSELFTPE CKFKESVFEN YYVTYSSMIY RQQQSGRGWY LGLNKEGEIM KGNHVKKNKP AAHFLPKPLK VAMYKEPSLH DLTEFSRSGS GTPTKRSVS VGLNNGKSMS HNEST
Accession Number	Q92913
Purity	>95% by SDS-PAGE and HPLC analyses
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.