

Growth Factor Data Sheet

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FGF19 is a member of the Fibroblast Growth Factor family of proteins. It is in the same endocrine signaling subfamily as FGF21 and FGF23 and is the human ortholog of mouse FGF15. FGF19 is a heparin-dependent ligand and binds exclusively to FGFR4. It is essential for brain and heart development, as well as the metabolism of bile acid, hepatic protein, and glycogen. FGF19 mRNA is expressed in several tissues including fetal cartilage, skin, and retina, as well as adult gall bladder and is overexpressed in a colon adenocarcinoma cell line.

Catalog Number	1140-19
Product Name	FGF19, Human Recombinant Human Fibroblast Growth Factor 19 FGF15/19 FGF-19
Source	<i>Escherichia coli</i>
MW	~21.8 kDa (195 amino acids)
Sequence	MRPLAFSDAG PHVHYGWGDP IRLRHLYTSG PHGLSSCFIR IRADGVVDCAR GQSAHSLLE IKAVLRRTVA IKGVHSVRYL CMGADGKMQG LLQYSEEDCA FEEEIRPDGY NVYRSEKHRL PVSLSAKQR QLYKNRGFLP LSHFLPMLPM VPEEPEDLRG HLESDFMSSP LETDSMDPFG LVTGLEAVRS PSFEK
Accession Number	O95750
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 150 ng/ml, corresponding to a specific activity of >6.7×10 ³ IU/mg.
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.