

Animal-Free FGF-19 Protein, Human (His)

Cat. No.:	HY-P70583AF
Synonyms:	Fibroblast growth factor 19; FGF-19; FGF19
Species:	Human
Source:	E. coli
Accession:	O95750 (R23-K216)
Gene ID:	9965
Molecular Weight:	Approximately 22.62 kDa

PROPERTIES

AA Sequence	<div> <div> MRPLAFSDAG IRADGVVDCA CMGADGKMQG PVSLSAKQR HLESDFSSP </div> <div> PHVHYGWGDP RQSAHSLE LLQYSEEDCA QLYKNRGFLP LETDSMDPFG </div> <div> IRLRHLYTSG IKAVALRTVA FEEEIRPDGY LSHFLPMLPM LVTGLEAVRS </div> <div> PHGLSSCFLR IKGVHSVRYL NVYRSEKHRL VPEEPEDLRG PSFEK </div> </div>
Biological Activity	Measure by its ability to induce 3T3 cells proliferation. The ED ₅₀ for this effect is <51 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The FGF-19 Protein plays a pivotal role in the regulation of bile acid biosynthesis by suppressing CYP7A1 expression through the positive modulation of the JNK and ERK1/2 cascades. Additionally, FGF-19 stimulates glucose uptake in adipocytes, and its activity is contingent upon the presence of both KLB and FGFR4. The protein forms crucial interactions with FGFR1, FGFR2, FGFR3, and FGFR4, emphasizing its involvement in FGF receptor signaling pathways. The affinity between FGFs and their receptors is augmented by KL, KLB, and heparan sulfate glycosaminoglycans, acting as coreceptors. FGF-19 directly interacts with KL and KLB, and in the presence of heparin, KL, or KLB, it forms an interaction with FGFR4. Additionally, FGF-</p>
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19 interacts with MALRD1, highlighting its diverse molecular associations and suggesting its involvement in intricate cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA