

41284. Human Fibroblast Growth Factor 19 (FGF-19), Tagless

Origin:	Recombinant	Cat. No.:	41284
Tag:	No tag	Size:	0.1 mg
Source:	E.coli	Purity:	>90%
Other Names:	FGF-19	Species:	Human

Description

Expressed in E.coli cells with total 194 AA. Mw: 21.6 KDa (calculated).

No tag, but with 2 extra AA at N-terminal (highlighted). Recombinant protein for research use or manufacturing only.

Introduction to the Molecule

Fibroblast growth factor 19 (FGF-19) is a member of a subfamily of FGFs that includes FGF-21 and FGF-23, each member functions as an important regulator of nutrient metabolism. The primary source of endocrine FGF-19 is the ileum, bile acids release into the intestine after a meal to induce expression of FGF-19. Circulating FGF-19 plays an important role in maintaining proper bile acid homeostasis. Several pharmacologic studies in hyperglycaemic, obese animal models have shown that FGF-19 can improve metabolic rate and lower serum glucose and hepatic triglyceride and cholesterol levels. Like insulin, FGF-19 functions as postprandial hormone to govern hepatic protein synthesis, glycogen synthesis and gluconeogenesis, but does not stimulate lipogenesis.

Amino Acid Sequence

GALAFSDAGPHVHYGWGDPIRLRHL YTS GPHGLSSCFLRIRADGVVDCARGQSAHSLLEIKAVLR
VAIKGVHSVRYLCMGADGKMQLLQYSEEDCAFEERIRPDGYNVYRSEKHRLPVSLSSAKQRQLYK
NRGFLPLSHFLPMLPMVPEEPEDLRGHLESDFSSPLETDSMDPFGLVTGLEAVRSPSEK

Endotoxin Level: <0.2 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized at 1 mg/mL in storage buffer (50mM Tris, 300-500mM NaCl, 10% Glycerol, PH8.0).

Reconstitution: Add deionized water to prepare a working stock solution of approximately 1 mg/mL and let the lyophilized pellet dissolve completely.

Storage: Store lyophilized protein at -20°C. Aliquot reconstituted protein and store at -80°C. Avoid repeated freezing /thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

SDS-PAGE Gel

