

**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 regular 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<sup>21</sup>YTS<sup>22</sup>GPHGLSSCFLRIRADGVVDCARGQSAHSLLEIKAVALRT  
VAIKGVHSVRYLCMGADGKMQGLLQYSEEDCAFE<sup>23</sup>EEIRPDGYNVYRSEKHRLPVSLSSAKQRQLYK  
NRGFLPLSHFLPMLPMVPEEPEDLRGHLES<sup>24</sup>DMFSSPLETDSMDPFGLVTGLEAVRSPSFEK

**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**
