
Mouse Fibroblast Growth Factor 19 (FGF-19), Tagless

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

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.

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.

Amino Acid Sequence

GALAFSDAGPHVHYGWGDP¹IRLRHLYTSGPHGLSSCFLRIRADGVVDCARGQSAHSLLEIKAV²ALRTVAIK
GVHSVRYLCMGADGKMQGLLQYSEEDCAFE³EEIIRPDGYNVYRSEKHRLPVSLSSAKQRQLYK⁴NRGFLPLSH
FLPMLPMVPEEPEDLRGHLES⁵DMFSSPLETDSMDPFGLVTGLEAVRSPSFEK

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.

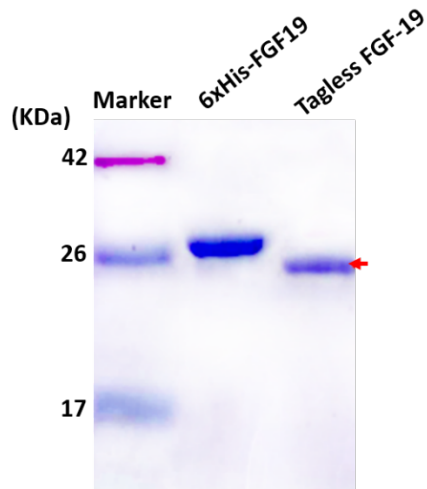
Storage

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



Contact Us

- Website: www.torontobioscience.com
- E-mail: sales@torontobioscience.com