

Human FGF19 protein, His tag

Cat. No. GTX00243-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

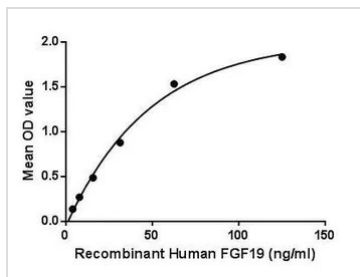
Fibroblast Growth Factor 19 (FGF19) is a member of the fibroblast growth factor (FGF) family. FGF19 has important roles as a hormone produced in the ileum in response to bile acid absorption, regulates new bile acid synthesis, acting through the FGFR4/Klotho- β receptor complexes in the liver to inhibit CYP7A1. FGF19 also has metabolic effects, affecting glucose and lipid metabolism. Besides, Fibroblast Growth Factor Receptor 1 (FGFR1) has been identified as an interactor of FGF19, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF19 and recombinant human FGFR1. Briefly, FGF19 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to FGFR1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-FGF19 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of FGF19 and FGFR1 was in a dose dependent manner.

Observed MW (kDa) 27 kDa.

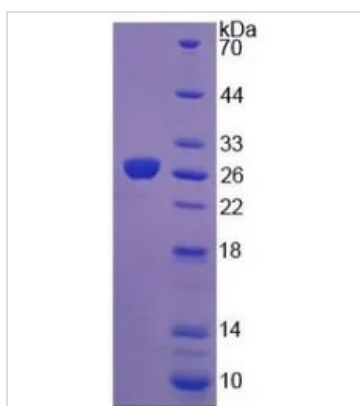
Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Gly4~Lys216 (NP_005108.1)**Expression System** E. coli**Purity** > 97%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

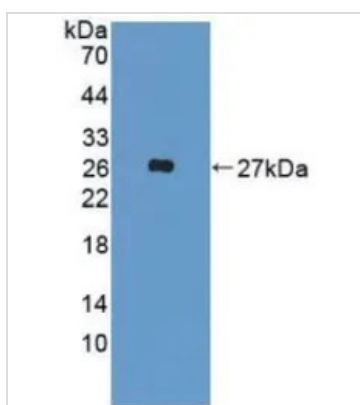
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DATA IMAGES

GTX00243-pro Functional Assay Image

Functional ELISA analysis of GTX00243-pro Human FGF19 protein which can bind immobilized FGFR1 protein.


GTX00243-pro Image

SDS-PAGE analysis of GTX00243-pro Human FGF19 protein.


GTX00243-pro Image

WB analysis of GTX00243-pro Human FGF19 protein.



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