



# Recombinant Protein Technical Manual

**Recombinant Human FGF9/FGF9 Protein (His Tag)(Active)**  
RPES3911

## Product Data:

**Product SKU:** RPES3911

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** O95750

## Protein Information:

**Molecular Mass:** 23.5 kDa

**AP Molecular Mass:** 24 kDa

**Tag:** N-6His

**Bio-activity:** Immobilized Human FGF9-His at 2µg/ml(100 µl/well) can bind Human FGFR3-Fc(Cat: PKSH033678). The ED50 of Human FGF9-His is 3.1135 ug/ml.

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl,pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** Fibroblast growth factor 19; FGF9; FGF19

## Immunogen Information:

**Sequence:** Phe27-Lys216

## Background:

Fibroblast growth factor 19 (FGF19) is a secreted protein which belongs to the FGFs family. FGF19 is expressed in fetal brain, cartilage, retina, and adult gall bladder. FGFs modulate cellular activity via at least 5 distinct subfamilies of high-affinity FGF receptors (FGFRs): FGFR, -2, -3, and -4, all with intrinsic tyrosine kinase activity. FGFRs can be important for regulation of glucose and lipid homeostasis. FGF19 has important roles as a hormone produced in the ileum in response to bile acid absorption. It has been shown to cause resistance to diet-induced obesity and insulin desensitization and to improve insulin, glucose, and lipid profiles in diabetic rodents. FGF19 can be considered as a regulator of energy expenditure.