



Recombinant Protein Technical Manual  
Recombinant Mouse FGF7 Protein (His Tag)(Active)  
RPES0704

#### Product Data:

**Product SKU:** RPES0704

**Size:** 10µg

**Species:** Mouse

**Expression host:** E. coli

**Uniprot:** P63075

#### Protein Information:

**Molecular Mass:** 23.7 kDa

**AP Molecular Mass:** 20-25 kDa

**Tag:** C-6His

**Bio-activity:** Measured in a cell proliferation assay using Balb/3T3 mouse fibroblast cells. The ED50 for this effect is 1.26 ug/ml, in the presence of 10 µg/mL heparin.

**Purity:** > 95 % as determined by 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, EDTA, DTT, pH 7.4.

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

**Application:** Cell Culture

**Synonyms:** Fibroblast growth factor 17; FGF7; fgf17

## Immunogen Information:

**Sequence:** Thr23-Thr216

## Background:

FGF7 is a member of the fibroblast growth factor (FGF) family. FGFs share 30-70% amino acid (aa) identity in a conserved, approximately 120 amino acid core domain. FGFs play multiple roles in biological functions, including angiogenesis, mitogenesis, cell differentiation and wound repair. FGF17 plays an important role in the regulation of embryonic development and as signaling molecule in the induction and patterning of the embryonic brain. It is also expressed in hindgut, parts of the developing skeleton, tail bud, major arteries, and heart. In many of these areas, it is expressed along with FGF-8, but slightly later. It is required for normal brain development.