



# Recombinant Protein Technical Manual

## Recombinant Human TMEM27 Protein (Fc Tag)

RPES0347

### Product Data:

**Product SKU:** RPES0347

**Size:** 50µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** Q9HBJ8

### Protein Information:

**Molecular Mass:** 41.4 kDa

**AP Molecular Mass:** 53-57 kDa

**Tag:** C-Fc

**Bio-activity:**

**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 sterile PBS, pH 7.4

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

**Application:**

**Synonyms:** NX7;NX17

## Immunogen Information:

**Sequence:** Met 1-Pro141

## Background:

TMEM27 is a membrane protein. It has been proposed as a beta cell mass biomarker since it is cleaved and shed by pancreatic beta cells. Overexpression of TMEM27 leads to increased thymidine incorporation, whereas silencing of Tmem27 using RNAi results in a reduction of cell replication. Furthermore, transgenic mice with increased expression of Tmem27 in pancreatic beta cells exhibit increased beta cell mass. TMEM27 is also important for trafficking amino acid transporters to the apical brush border of proximal tubules.