



# Recombinant Protein Technical Manual

## Recombinant Human CLIC5 Protein (His Tag)

RPES0547

### Product Data:

**Product SKU:** RPES0547

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q9NZA1

### Protein Information:

**Molecular Mass:** 30.3 kDa

**AP Molecular Mass:** 32 kDa

**Tag:** N-6His

**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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

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

**Application:**

**Synonyms:** Chloride Intracellular Channel Protein 5; CLIC5

## Immunogen Information:

**Sequence:** Met 1-Ser251

## Background:

Chloride Intracellular Channel Protein 5 (CLIC5) is a single-pass membrane protein which belongs to the chloride channel CLIC family. It contains one GST C-terminal domain. Chloride intracellular channels are involved in chloride ion transport within various subcellular compartments. CLIC5 can insert into membranes and form selective ion channels regulated by actin that may transport chloride ions. It may play a role in the regulation of transepithelial ion absorption and secretion. CLIC5 specifically associates with the cytoskeleton of placenta microvilli. CLIC5 is required for the development and/or maintenance of the proper glomerular endothelial cell and podocyte architecture.