



Recombinant Protein Technical Manual  
Recombinant Human Chymotrypsin C Protein (His  
Tag)  
RPES2814

### Product Data:

**Product SKU:** RPES2814

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q99895

### Protein Information:

**Molecular Mass:** 29.0 kDa

**AP Molecular Mass:** 35 kDa

**Tag:** C-6His

**Bio-activity:**

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

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

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0.

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

**Application:**

**Synonyms:** Chymotrypsin-C; Caldecrin; CTRC; CLCR

## Immunogen Information:

**Sequence:** Cys17-Leu268

## Background:

Chymotrypsin C (CTRC) is a member of the peptidase S1 family. CTRC is a serum calcium-decreasing factor that has chymotrypsin-like protease activity. CTRC has broad substrate specificity, but prefers to cleave on the carboxyl side of hydrophobic residues. CTRC is expressed primarily in the pancreas, and is secreted into the digestive tract. CTRC plays a protective role in the pancreas by mitigating premature trypsinogen activation through degradation. It has been proposed that CTRC is a key regulator of digestive zymogen activation and is a physiological coactivator of digestive carboxypeptidases proCPA1 and proCPA2. The mutation of CTRC gene encodes the digestive enzyme CTRC contribute to the development of pancreatitis.