

Recombinant Human Chymotrypsin C Protein (His Tag)

Catalog Number: PKSH033366

Note: Centrifuge before opening to ensure complete recovery of vial contents.

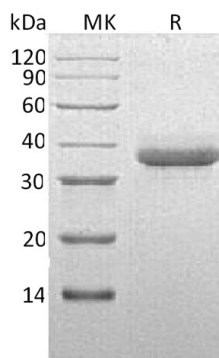
Description

Species	Human
Source	HEK293 Cells-derived Human Chymotrypsin C protein Cys 17-Leu268, with an C-terminal His
Calculated MW	29.0 kDa
Observed MW	33-40 kDa
Accession	Q99895
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein 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 Tris-Hcl, 150mM NaCl , pH7.5.

Data



> 95 % as determined by reducing SDS-PAGE.

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.