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## **CTRC**

## **Native Human Chymotrypsin Active**

Catalog No. CSI13571A Quantity:  $100 \mu g$ 

CSI13571B 1.0 mg

Alternate Names: Chymotrypsin-C, Caldecrin

**Description:** Chymotrypsin is a digestive enzyme that can perform proteolysis. Chymotrypsin

preferentially cleaves peptide amide bonds where the carboxyl side of the amide bond (the P1 position) is a tyrosine, tryptophan, or phenylalanine. Increased concentrations of

this enzyme and/or its zymogen have been found in patients with cystic fibrosis.

UniProt ID: Q99895

**Gene ID:** 11330

Source: Human pancreas

Molecular Weight: 25 kDa

**Formulation:** Lyophilized salt-free white solid.

**Purity:**  $\geq$  95% pure by SDS PAGE

This product shows no trypsin activity when assayed against Nα-benzoyl-L-arginine-p-

nitroanilide

Extinction Coefficient:  $E^{0.1\%}_{280nm} = 1.9$ 

**Biological Activity:** 40-70 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes

one umole of Suc-Ala-Ala-Pro-Phe-pNA per minute at 21°C, pH 8.0

Storage & Stability: Store as supplied at -20°C to -80°C for at least 1 year. Upon reconstitution, store in

working aliquots at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

**Biohazard:** Donor tissues were tested and found to be negative for HBsAg, anti-HCV, anti-HBc, and

negative for anti-HIV 1 & 2 by FDA-required tests. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and

Biomedical Laboratories", 2009.

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