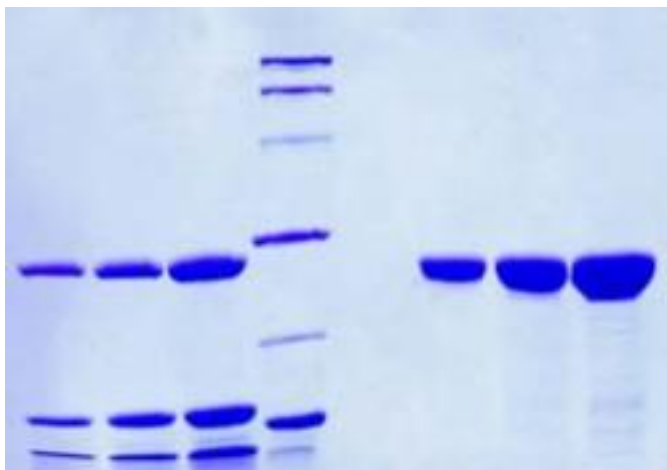


## CTRC

### Native Human Chymotrypsin-C, Pancreas

<b>Catalog No.</b>	CSI19797A CSI19797B	<b>Quantity:</b>	100 µg 1.0 mg
<b>Alternate Names:</b>	Caldecrin, Elastase 4		
<b>Description:</b>	The digestive enzyme chymotrypsin protects against pancreatitis by promoting degradation of trypsinogen and potentially harmful trypsinogen activation. Loss-of-function variants in <i>CTRC</i> increase the risk for chronic pancreatitis. Increased values of this enzyme and/or its zymogen have been found in patients with cystic fibrosis.		
<b>UniProt ID:</b>	Q99895		
<b>Source:</b>	Human pancreas		
<b>Molecular Weight:</b>	25 kDa		
<b>Formulation:</b>	Lyophilized from Salt Free Buffer		
<b>Purity:</b>	> 95% by SDS-PAGE analysis No trypsin activity when assayed against N $\alpha$ -benzoyl-L-arginine-p-nitroanilide.		
<b>Extinction Coefficient:</b>	$E^{0.1\%}_{280\text{nm}} = 1.9$		
<b>Biological Activity:</b>	One unit is defined as the amount of enzyme that hydrolyzes one µmole of Suc-Ala-Ala-Pro-Phe-pNA per minute at 25°C, pH 8.0.		
<b>Specific Activity:</b>	40-70 units/mg.		
<b>Reconstitution:</b>	<b>Centrifuge vial briefly, prior to opening, to ensure recovery of the product. Reconstitute to the original volume using 2 mM HCl.</b> Mix gently and allow a few minutes to dissolve completely. <b>Do not vortex.</b>		
<b>Storage &amp; Stability:</b>	Store unopened vial at -20°C to -80°C for at least 1 year. Upon reconstitution, prepare aliquots and store at -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		
<b>Infectious Disease Statement:</b>	Prepared from tissue shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.		



#### SDS-PAGE:

12% BIO RAD Tris-HCl gel

1. Chymotrypsin - 5 µg (reduced / heated)
2. Chymotrypsin - 10 µg (reduced / heated)
3. Chymotrypsin - 20 µg (reduced / heated)
4. LMW Standard (BIO-RAD Cat. No. 161-0304)
5. Chymotrypsin - 5 µg (non-reduced / no heat)
6. Chymotrypsin - 10 µg (non-reduced / no heat)
7. Chymotrypsin - 20 µg (non-reduced / no heat)

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