

CTRB1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70005
Synonyms:	rHuChymotrypsinogen B/CTRB1, His; Chymotrypsinogen B; CTRB1; CTRB
Species:	Human
Source:	HEK293
Accession:	P17538 (C19-N263)
Gene ID:	1504
Molecular Weight:	28-30 kDa

PROPERTIES

AA Sequence	<p> C G V P A I H P V L S G L S R I V N G E D A V P G S W P W Q V S L Q D K T G F H F C G G S L I S E D W V V T A A H C G V R T S D V V V A G E F D Q G S D E E N I Q V L K I A K V F K N P K F S I L T V N N D I T L L K L A T P A R F S Q T V S A V C L P S A D D D F P A G T L C A T T G W G K T K Y N A N K T P D K L Q Q A A L P L L S N A E C K K S W G R R I T D V M I C A G A S G V S S C M G D S G G P L V C Q K D G A W T L V G I V S W G S D T C S T S S P G V Y A R V T K L I P W V Q K I L A A N </p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>Chymotrypsinogen B (CTRB1) is a member of the serine protease family of enzymes and forms a principal precursor of the pancreatic proteolytic enzymes. CTRB1 is synthesized in the acinar cells of the pancreas and secreted into the small intestine where it undergoes proteolytic activation to generate the functional enzyme. CTRB1 enables serine-type endopeptidase activity, being involved in response to apoptotic signal, nutrient, cytokine and peptide hormone. CTRB1</p>
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induces apoptosis through Bid cleavage activity, as the truncated Bid can in turn cause rapid mitochondrial release of cytochrome c. CTB1 is located in lysosome and is a biomarker of pancreatitis. CTB1 gene encodes distinct isoforms, which may undergo similar processing to generate the mature protein^{[1][2][3][4][5]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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