



# Recombinant Human Chymotrypsin-like elastase family member 3B (CELA3B)

<b>Product Code</b>	CSB-MP007589HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P08861
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	VV NGEDAVPYSW PWQVSLQYEK SGSFYHTCGG SLIAPDWVVT AGHCISSRT YQVVLGEYDR AVKEGPEQVI PINSGDLFVH PLWNRSCVAC GNDIALIKLS RSAQLGDAVQ LASLPPAGDI LPNETPCYIT GWGRLYTNGP LPDKLQEALL PVVDYEHCSR WNWWGSSVKK TMVCAGGDIR SGCNGDSGGP LNCPTEDGGW QVHGVTSFVS AFGCNTRRKP TVFTRVSAFI DWIEETIASH
<b>Source</b>	Mammalian cell
<b>Target Names</b>	CELA3B
<b>Protein Names</b>	Recommended name: Chymotrypsin-like elastase family member 3B EC= 3.4.21.70 Alternative name(s): Elastase IIIB Elastase-3B Protease E
<b>Expression Region</b>	29-270
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode the structurally similar proteins elastase 1, 2, 2A, 2B, 3A, and 3B. Unlike other elastases, elastase 3B has little elastolytic activity. Like most of the human elastases, elastase 3B is secreted from the pancreas as a zymogen and, like other serine proteases such as trypsin, chymotrypsin and kallikrein, it has a digestive function in the intestine. Elastase 3B preferentially cleaves proteins after alanine residues. Elastase 3B may also function in the intestinal transport and metabolism of cholesterol. Both elastase 3A and elastase 3B have been referred to as protease E and as elastase 1, and excretion of this protein in fecal material is frequently used as a measure of pancreatic function in clinical assays.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.