

Recombinant Human Cathepsin A/CTSA

Catalog No: C111

Description	Recombinant Human Cathepsin A is produced by our Mammalian expression system and the target gene encoding Ala29-Tyr480 is expressed with a 6His tag at the C-terminus.
Expression System	Human cells
Alternative name	Lysosomal protective protein; CTSA; Carboxypeptidase C; Carboxypeptidase L; Cathepsin A
Accession No.	P10619
Predicted Molecular Weight	52.2kDa
Apparent Molecular Weight	58-60kDa, reducing conditions.
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH7.4.
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Background	Cathepsin A is active in cellular compartments called lysosomes. These compartments contain enzymes that digest and recycle materials when they are no longer needed. Cathepsin A interacts with the enzymes β-galactosidase and neuraminidase 1, which play a role in the breakdown of complexes of sugar molecules (oligosaccharides) attached to certain proteins (glycoproteins) or fats (glycolipids). Cathepsin A forms a complex with these two enzymes and directs their transport within the cell to the lysosomes. Within lysosomes, cathepsin A activates the enzymes and prevents their breakdown.

SDS-PAGE

