



[Go to Product page](#)

Datasheet for ABIN1945402 CTSA Protein (AA 29-480) (His tag)

Overview

Quantity:	50 µg
Target:	CTSA
Protein Characteristics:	AA 29-480
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTSA protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Cathepsin A/CTSA (C-6His)
Sequence:	<p>APDQDEIQRL PGLAKQPSFR QYSGYLKGS SKHLHYWFVE SQKDPENSPV VLWLNGGPGC</p> <p>SSLDGLLTEH GPFLVQPDGV TLEYNPYSWN LIANVLYLES PAGVGFSYSD DKFYATNDTE</p> <p>VAQSNFEALQ DFFRLFPEYK NNNKFLTGES YAGIYPTLA VLVMQDPSMN LQGLAVGNGL</p> <p>SSYEQNDNSL VYFAYYHGLL GNRLWSSLQT HCCSQNKCNF YDNKDLECVT NLQEVARIVG</p> <p>NSGLNIYNLY APCAGGVPSH FRYEKDTVVV QDLGNIFTRL PLKRMWHQAL LRSGDKVRMD</p> <p>PPCTNTTAAS TYLNNPYVRK ALNIPEQLPQ WDMCNFLVNL QYRRLYRSMN SQYLKLLSSQ</p> <p>KYQILLYNGD VDMACNFMGD EWFVDSLQNK MEVQRRPWLK KYGDSGEQIA GFVKEFSHIA</p> <p>FLTIKGAGHM VPTDKPLAAF TMFSRFLNKQ PYHHHHHH</p>
Characteristics:	Recombinant Human cathepsin A is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ala29Tyr480) of Human cathepsin A fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	CTSA
Alternative Name:	Cathepsin A (CTSA Products)
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.
Molecular Weight:	52.2 kDa
UniProt:	P10619

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months