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## Datasheet for ABIN7194664 CTSA Protein (His tag)

### Overview

Quantity:	50 µg
Target:	CTSA
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTSA protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Cathepsin A/CTSA Protein (His Tag)
Sequence:	Met 1-Tyr 480
Characteristics:	A DNA sequence encoding the human cathepsin A isoform b (Met 1-Tyr 480) (NP_001121167.1) was expressed with a N-terminal signal peptide and a C-terminal polyhistidine tag.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	CTSA
Alternative Name:	Cathepsin A/CTSA ( <a href="#">CTSA Products</a> )
Background:	Background: Lysosomal carboxypeptidase, cathepsin A (protective protein, CathA), is a component of the lysosomal multienzyme complex along with beta-galactosidase (GAL) and

## Target Details

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sialidase Neu1, where it activates Neu1 and protects GAL and Neu1 against the rapid proteolytic degradation. Cathepsin A is a multicatalytic enzyme with deamidase and esterase in addition to carboxypeptidase activities. It was recently identified in human platelets as deamidase. In vitro, it hydrolyzes a variety of bioactive peptide hormones including tachykinins, suggesting that extralysosomal cathepsin A plays a role in regulation of bioactive peptide functions. It is a member of the alpha/beta hydrolase fold family and has been suggested to share a common ancestral relationship with other alpha/beta hydrolase fold enzymes, such as cholinesterases. Cathepsin A defects are linked to multiple forms of Galactosialidosis with a combined secondary deficiency of beta-galactosidase and neuraminidase. Cathepsin A is a key molecule in the onset of galactosialidosis and also highlight the therapeutic acts in vivo as an endothelin-1-inactivating enzyme and strongly confirm a crucial role of this enzyme in effective elastic fiber formation.

Synonym: Lysosomal protective protein,CTSA,Carboxypeptidase C,Carboxypeptidase L,Cathepsin A,GLB2,GSL,NGBE,PPCA,PPGB

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Molecular Weight: 53 kDa

NCBI Accession: [NP\\_001121167](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 25 mM Tris, 0.15 mM NaCl, pH 7.5

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.