

## 32-8394: Recombinant Human Cathepsin A/CTSA (C-6His)

**Gene :** CTSA  
**Gene ID :** 5476  
**Uniprot ID :** P10619

### Description

Source: Human Cells.

MW :52.2kD.

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. 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 beta-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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** APDQDEIQRLPGLAKQPSFRQYSGYLKSGSGSKHLHYWFVESQKDPENSPVVLWLNGGPGCSSLDGLLTEHGP  
FLVQPDGVTLEYNPYSWNLIANVLYLESPAGVGFSYDDKFYATNDTEVAQSNFEALQDFFRLFPYKNNKLFLT  
GESYAGIYIPTLAVLVMQDPSMNLOGLAVGNGLSSYEQNDNSLVYFAYYHGLGNRLWSSLQTHCCSQNKCNF  
YDNKDLECVTNLQEVARIVGNSGLNIYNLYAPCAGGVPSHFYKEDTVVVQDLGNIFTRLPLKRMWHQALLRS  
GDKVRMDPPCTNTTAASYLNNPYVRKALNIEQLPQWDMCNFLVNLQYRRLYRSMNSQYLKLLSSQKYQILLY  
NGDVDMACNFMGDEWFVDSLQKMEVQRRPWLVKYGDSGEQIAGFVKEFSHIAFLTIGAGHMPVPTDKPLA  
AFTMFSRFLNKQPYHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.