Recombinant Protein Technical Manual

Recombinant Human Cathepsin A/CTSA Protein (His Tag)

RPES4592

Product Data:

Product SKU: RPES4592

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P10619

Protein Information:

Molecular Mass: 52.2 kDa

AP Molecular Mass: 58-60 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

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

Application:

Synonyms: Lysosomal protective protein;CTSA;Carboxypeptidase C;Carboxypeptidase L;Cathepsin A;GLB2;GSL;NGBE;PPCA;PPGB

Immunogen Information:

Sequence: Ala29-Tyr480

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.