

Recombinant Human Cathepsin A/CTSA Protein (His Tag)

Catalog No. PKSH032178

Note: Centrifuge before opening to ensure complete recovery of vial contents.

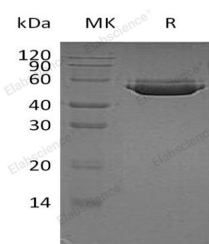
Description

Synonyms	Lysosomal protective protein;CTSA;Carboxypeptidase C;Carboxypeptidase L;Cathepsin A;GLB2;GSL;NGBE;PPCA;PPGB
Species	Human
Expression Host	HEK293 Cells
Sequence	Ala29-Tyr480
Accession	P10619
Calculated Molecular Weight	52.2 kDa
Observed molecular weight	58-60 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein 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, pH 7.4.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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

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breakdown.