

Recombinant Human Cathepsin A/CTSA Protein (His Tag)



Catalog Number:PKSH032178

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

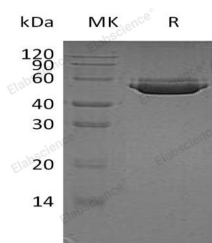
Description

| | |
|------------------------------------|---|
| 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 |

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 breakdown.

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