

Recombinant Mouse Ctsb protein (rFc Tag)

Catalog Number: Eg3028

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
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Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ µg protein, LAL method

Source:
HEK293-derived Mouse Ctsb protein His18-Phe339 (Accession# P10605) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
13030

Accession:
P10605

Predicted Molecular Mass:
60.9 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CTSB (cathepsin B), a member of the cysteine cathepsin family, was primarily found as a cysteine protease that was involved in the degradation of lysosomal proteins. Cathepsin B is secreted as a pro-enzyme and is activated to its active form via various molecules. Cathepsin B was identified as the major enzyme responsible for endosomal proteolysis of internalized epidermal growth factor receptor complexes and insulin-like growth factor-I. Cathepsin B also degrades preformed extracellular oligomeric and fibrillar amyloid in aged APP transgenic mice.

References

1. Gondi, Christopher S, and Jasti S Rao. Expert opinion on therapeutic targets vol. 17,3 (2013): 281-91.
2. Wang, Chao et al. The Journal of biological chemistry vol. 287,47 (2012): 39834-41.
3. Guicciardi, M E et al. The American journal of pathology vol. 159,6 (2001): 2045-54.
4. Stahl, Sonja et al. Biochimica et biophysica acta vol. 1774,10 (2007): 1237-46.

Synonyms

Cathepsin B, Cathepsin B heavy chain, Cathepsin B light chain, Cathepsin B1, EC:3.4.22.1

Selected Validation Data

For technical support and original validation data for this product please contact

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