For Research Use Only

Recombinant Mouse Cathepsin D protein (rFc Tag)

www.ptgcn.com

Catalog Number: Eg2986

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse Cathepsin D protein Ile21-Leu410 (Accession# P18242) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
13033

Accession:
P18242

Predicted Molecular Mass:
68.9 kDa

SDS-PAGE:
65-80 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

CTSD (Cathepsin D) also named CPSD, belongs to the peptidase A1 family. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. It is a lysosomal acid protease found in neutrophils and monocytes and involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer's disease.

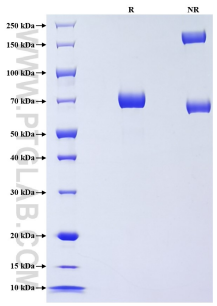
References

1. Vidoni C. et al. (2016). Med Res Rev. 36(5):845-870.
2. Ashraf Y. et al. (2019). J Immunother Cancer. 7(1):29.
3. Chai YL. et al. (2019). Brain Pathol. 29(1):63-74.

Synonyms

Cathepsin D, Ctsd, EC:3.4.23.5

Selected Validation Data



Purity of Recombinant Mouse Cathepsin D was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.