

Recombinant Mouse Cathepsin D protein ab191943

Description	
Product name	Recombinant Mouse Cathepsin D protein
Purity	> 95 % SDS-PAGE. Purity greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	<u>P18242</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	IIRIPLRKFTSIRRTMTEVGGSVEDLILKGPI TKYSMQSSPKTT EPVSEL LKNYLDAQYYGDIGIGTPPQCFTVVFDTGSSNLWVPSIHCKI LDIACWVH HKYNSDKSSTYVKNGTSFDIHYGSGSLSGYLSQDTVSVPC KSDQSKARGI KVEKQIFGEATKQPGIVFAAKFDGILGMGYPHISVNNVLP VFDNLMQQK LVDKNIFS FYLN RDPEGQPGGELMLGGTDSKYYHGELSYL NVTRKAYWQV HMDQLEVGNELTLCKGGCEAVDTGTSLLVGPVEEVKEL QKAIGAVPLIQ GEYMIPCEKVSSLPTVYLKLGKKNYELHPDKYILKVSQGGK TICLSGFMG MDIPPPSGPLWILGDVFIGSYYTVFDRDNNRVGFANAVVL VDHHHHHH
Predicted molecular weight	44 kDa including tags
Amino acids	21 to 410
Tags	His tag C-Terminus
Additional sequence information	This product is the full length protein from aa 21 to 410, including the propeptide. The signal peptide is not included.

Specifications

Our **Abpromise guarantee** covers the use of **ab191943** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
	HPLC
<b>Form</b>	Lyophilized

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## Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
	pH: 5.50
	Constituents: 0.39% MES, 0.87% Sodium chloride
	Lyophilized from a 0.2 µM filtered solution.

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## General Info

<b>Function</b>	Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.
<b>Tissue specificity</b>	Expressed in the aorta extracellular space (at protein level).
<b>Involvement in disease</b>	Ceroid lipofuscinosis, neuronal, 10
<b>Sequence similarities</b>	Belongs to the peptidase A1 family. Contains 1 peptidase A1 domain.
<b>Post-translational modifications</b>	N- and O-glycosylated.
<b>Cellular localization</b>	Lysosome. Melanosome. Secreted, extracellular space. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In aortic samples, detected as an extracellular protein loosely bound to the matrix (PubMed:20551380).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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