abcam

Product datasheet

Recombinant Human proCathepsin D protein ab151860

1 References

Description

Product name	Recombinant Human proCathepsin D protein
Purity	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE. ab151860 has been 0.2 µM filtered.
Endotoxin level	< 1.000 Eu/µg
Expression system	HEK 293 cells
Accession	P07339
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	SALVRIPLHKFTSIRRTMSEVGGSVEDLIAKGPVSKYSQAV PAVTEGPIP EVLKNYMDAQYYGEIGIGTPPQCFTVVFDTGSSNLWVPSIH CKLLDIACW IHHKYNSDKSSTYVKNGTSFDIHYGSGSLSGYLSQDTVSVP CQSASSASA LGGVKVERQVFGEATKQPGITFIAAKFDGILGMAYPRISVN NVLPVFDNL MQQKLVDQNIFSFYLSRDPDAQPGGELMLGGTDSKYYKG SLSYLNVTRKA YWQVHLDQVEVASGLTLCKEGCEAIVDTGTSLMVGPVDE VRELQKAIGAV PLIQGEYMIPCEKVSTLPAITLKLGGKGYKLSPEDYTLKVSQ AGKTLCLS GFMGMDIPPPSGPLWILGDVFIGRYYTVFDRDNNRVGFAE AARLVDHHHH HH
Predicted molecular weight	44 kDa including tags
Amino acids	19 to 412
Tags	His tag C-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab151860** in the following tested applications.

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

Applications	SDS-PAGE HPLC
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 5.50 Constituents: 0.39% MES, 0.88% Sodium chloride

General Info

Function	Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.
Involvement in disease	Defects in CTSD are the cause of neuronal ceroid lipofuscinosis type 10 (CLN10) [MIM:610127]; also known as neuronal ceroid lipofuscinosis due to cathepsin D deficiency. A form of neuronal ceroid lipofuscinosis with onset at birth or early childhood. Neuronal ceroid lipofuscinoses are progressive neurodegenerative, lysosomal storage diseases characterized by intracellular accumulation of autofluorescent liposomal material, and clinically by seizures, dementia, visual loss, and/or cerebral atrophy.
Sequence similarities	Belongs to the peptidase A1 family.
Cellular localization	Lysosome. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

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