

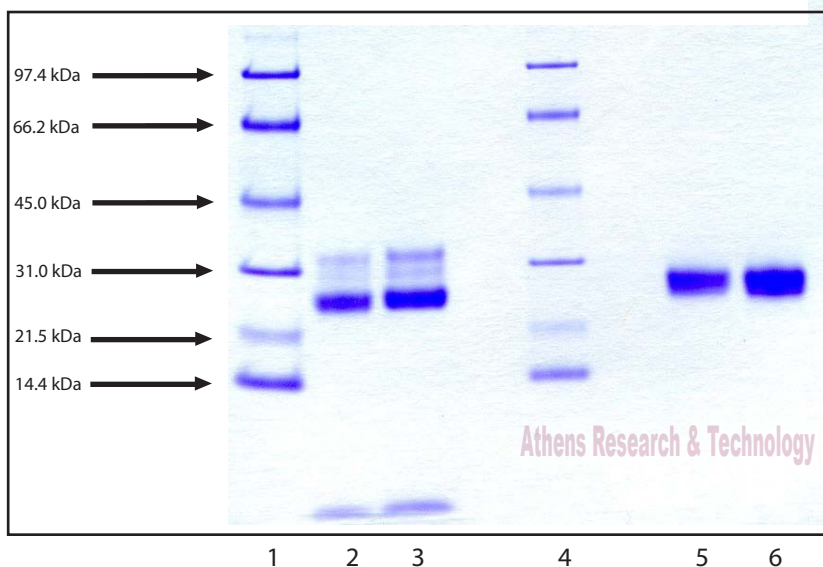
Athens Research & Technology

110 Trans Tech Drive Athens, GA 30601 USA

PHONE: 706-546-0207 • FAX: 706-546-7395 • EMAIL: ARTBIO@ATHENSRESEARCH.COM
www.athensresearch.com

Gel Scan of Representative Lot

Cathepsin B, Human Liver
ART Catalog No. 16-12-030102



SDS-PAGE:

4-12% Bis-Tris NuPAGE gel

1. LMW Standard (BIO-RAD Cat. No. 161-0304)
2. Cathepsin B - 4 µg (reduced / heated)
3. Cathepsin B - 7 µg (reduced / heated)
4. LMW Standard (BIO-RAD Cat. No. 161-0304)
5. Cathepsin B - 4 µg (non-reduced / no heat)
6. Cathepsin B - 7 µg (non-reduced / no heat)

Molecular Weight: 27,500

Protein Determination:

Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 2.0$

Physical Specifications:

Frozen
Purity: $\geq 95\%$ by SDS-PAGE

Activity:

Greater than 200 units per mg protein. One unit is defined as the amount of enzyme which hydrolyzes one µmole of Z-Arg-Arg-βNA per minute at 40°C, using 100 mM Na/K phosphate, pH 6.0, with 1.33 mM EDTA and 2 mM DTT as the activation buffer.

Considerations:

Storage Conditions: $\leq -70^\circ \text{C}$

Stability > 1 year

Buffer: 50 mM Na Acetate, pH 5.0 with 1mM EDTA

Virginia B Patel

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Product Datasheet

Product:	Cathepsin B, Human Liver
Catalog Number:	16-12-030102
Description:	Frozen
Buffer:	50 mM Na acetate, pH 5.0 with 1 mM EDTA
Purity:	>=95% by SDS-PAGE
Activity:	Greater than 200 units per mg protein. One unit is defined as the amount of enzyme which hydrolyzes one μ mole of Z-Arg-Arg- β NA per minute at 40° C, using 100 mM Na/K phosphate, pH 6.0, with 1.33 mM EDTA and 2 mM DTT as the activation buffer.
Molecular Weight:	MW 27,500
Protein Determination:	Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 2.0$
Storage:	<= -70° C
Stability:	> 1 year
Available Packaging:	25 μ g per vial Larger aliquots upon request
Source:	Human Liver
Testing:	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

**Athens Research & Technology products are laboratory reagents and are not to be administered to humans or used for any drug purpose.
For research use or for use in further manufacturing.**

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ISO9001:2008

Certificate Of Origin

Product Name:	Cathepsin B, Human Liver
Catalog Number:	16-12-030102
Lot Number:	Information applies to all lots produced.
Manufacturing Information:	The methods and controls used in this facility for manufacturing, processing, packaging and holding of our products are in accordance with ISO9001:2008 Quality Management System.
Manufacturing Site:	Athens Research & Technology Inc., Athens, Georgia, USA
Raw Material Information:	The product contains no materials directly of animal origin and has not been in contact with products of animal origin in the course of its purification.
Country of Origin (manufacturing):	United States
Biological Source Material (COO):	United States
Donor Consent:	The raw material used in the purification of this product has been obtained from an FDA licensed collection center. Further the donor or the donor's next of kin has given by signature full informed consent for the material to be used in commercial scientific research, including the sharing, transferring, or selling of samples to third parties involved in this research. The raw material was obtained in an ethical manner in full compliance with national legislation, and the donor identity is held as confidential information by the licensed collection center.

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