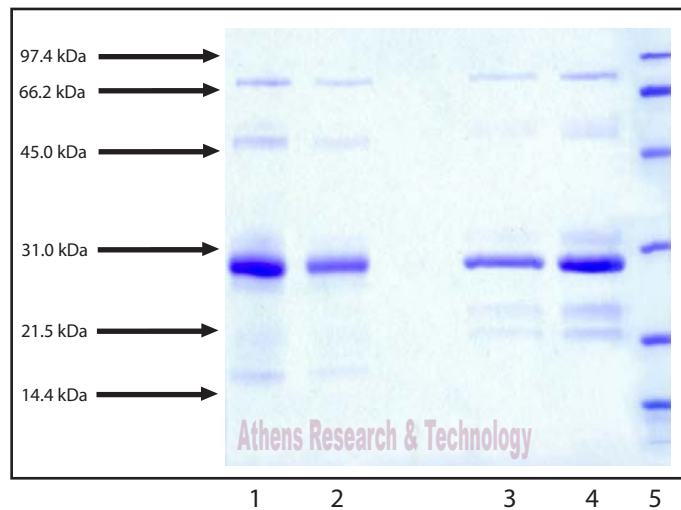


Athens Research & Technology

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Gel Scan of Representative Lot

Cathepsin H, Human Liver ART Catalog No. 16-12-030108



SDS-PAGE:

12% BIO RAD Tris-HCl gel

1. Cathepsin H - 7 μ g (non-reduced / heated)
2. Cathepsin H - 4 μ g (non-reduced / heated)
3. Cathepsin H - 4 μ g (reduced / heated)
4. Cathepsin H - 7 μ g (reduced / heated)
5. LMW Standard (BIO-RAD Cat. No. 161-0304)

Molecular Weight: 28,000

Protein Determination:

Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.22$

Physical Specifications:

Frozen

Activity:

Greater than 1 unit per mg protein. One unit is defined as the amount of enzyme which hydrolyzes one μ mole of L-arginine-beta-naphthylamide per minute at 40°C in 75 mM potassium phosphate buffer, pH 6.8 with 1 mM EDTA and 3 mM cysteine.

Considerations:

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

Stability > 1 year

Buffer: 20 mM Na Acetate, pH 4.5 with 1 mM EDTA and 100 mM NaCl

Virginia B. Patel PhD

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Product Datasheet

Product:	Cathepsin H, Human Liver
Catalog Number:	16-12-030108
Description:	Frozen
Buffer:	20 mM Na Acetate, pH 4.5 with 1 mM EDTA and 100 mM NaCl
Activity:	Greater than 1 unit per mg protein. One unit is defined as the amount of enzyme which hydrolyzes one μ mole of L-arginine-beta-naphtylamide per minute at 40° C in 75 mM potassium phosphate buffer, pH 6.8 with 1 mM EDTA and 3 mM cysteine.
Molecular Weight:	MW 28,000
Protein Determination:	Extinction Coefficient (E) $\frac{0.1\% \text{ at } 280\text{nm}}{1\text{cm pathway}} = 1.22$
Storage:	$\leq -70^\circ \text{ C}$
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 only.

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ISO9001:2008

Certificate Of Origin

Product Name:	Cathepsin H, Human Liver
Catalog Number:	16-12-030108
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.

**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.**