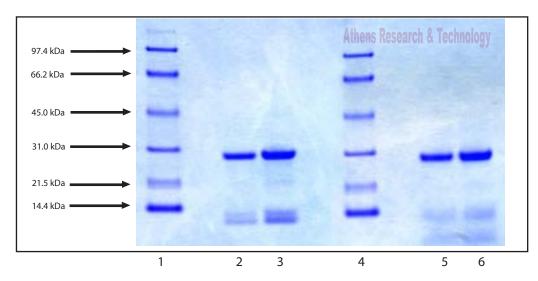
# **Athens Research & Technology**

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 D, Human Liver

ART Catalog No. 16-12-030104



#### SDS-PAGE:

4 - 12% Bis-Tris NuPAGE gel

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

Molecular Weight: 42,000

### **Protein Determination:**

Extinction Coefficient (E)  $\frac{0.1\% \text{ at } 280 \text{nm}}{1 \text{cm pathway}} = 1.0$ 

### **Physical Specifications:**

Frozen

Purity: >= 95% by SDS-PAGE

## Activity:

Greater than 300 units per mg protein. One unit is defined as the amount of enzyme which digests hemoglobin-releasing peptides which are soluble in 10% TCA. The reaction is measured by an increase of an  $A_{280}$  of 1.0 per 60 minutes at 37°C. Substrate: acid denatured hemoglobin (0.2% in reaction mixture). Buffer: 0.1 M formate, pH 3.3.

#### **Considerations:**

Storage Conditions:  $<=-70^{\circ}$  C

Stability > 1year

Buffer: 2 mM Na Phosphate, pH 6.5

Virginia B. Patel PhD

# **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

### **Product Datasheet**

Product: Cathepsin D, Human Liver

Catalog Number: 16-12-030104

Description: Lyophilized

Buffer: 2 mM Na Phosphate, pH 6.5

Purity: >=95% by SDS-PAGE

Activity: Greater than 300 units per mg protein. One unit is defined as the amount

of enzyme which digests hemoglobin-releasing peptides which are soluble in 10% TCA. The reaction is measured by an increase of an  $A_{280}$  of 1.0 per 60 minutes at 37°C. Substrate: acid denatured hemoglobin (0.2% in reaction

mixture). Buffer: 0.1 M formate, pH 3.3.

Molecular Weight: MW 42,000

Protein Determination: Extinction Coefficient (E) 0.1% at 280nm = 1.0

1cm pathway

Storage: Store  $\leq$  -20° C

Stability: > 1 year

Available Packaging: 25 µg per vial

Larger aliquots upon request

Source: Human Plasma

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.

## **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

ISO9001:2008

## Certificate Of Origin

Product Name: Cathepsin D, Human Liver

Catalog Number: 16-12-030104

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.