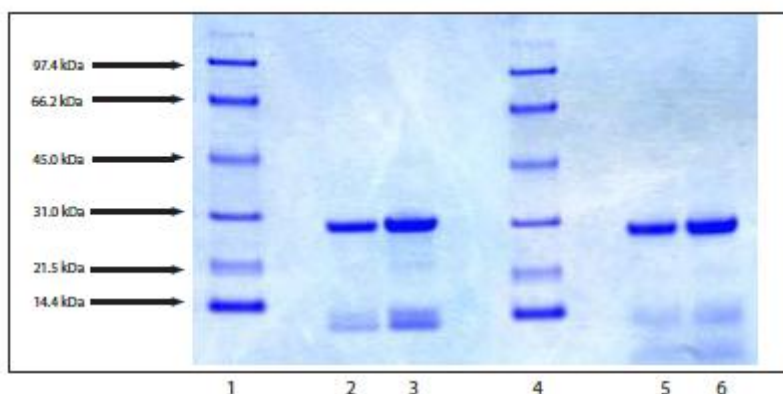


Cathepsin D, Human Liver

Project number: np001110



SDS-PAGE:

4 - 12% Bis-Tris NuPAGE gel

1. LMW Standard
2. Cathepsin D - 4 µg (non-reduced / no heat)
3. Cathepsin D - 7 µg (non-reduced / no heat)
4. LMW Standard
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: $\geq 95\%$ 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 A280 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: $\leq -80^\circ\text{C}$

Stability > 1 year

Buffer: 2 mM Na Phosphate, pH 6.5

Product Datasheet

Product: Cathepsin D, Human Liver

Catalog Number: np001110

Description: Lyophilized

Buffer: 2 mM Na Phosphate, pH 6.5

Purity: $\geq 95\%$ 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 A280 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) $0.1\% \text{ at } 280\text{nm} = 1.0$
1cm pathway

Storage: $\leq -80^\circ\text{C}$

Stability: > 1 year

Available Packaging: 25 µg per vial
Larger aliquots upon request

Source: Human Plasma

Certificate Of Origin

Product Name: Cathepsin D, Human Liver

Catalog Number: np001110

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 ISO9001:2015 Quality Management System.

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 (C00): 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.