

## HumanKine® Cystatin C (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

### Product Description

Animal-free Recombinant Human Cystatin C (Cys-C) is expressed in human 293 cells as a monomer with an apparent molecular mass of 12 to 13 kDa. Native Cys-C in human urine is found in two different forms: one with pI 9.2 and the other with pI 7.8 by elimination of small basic peptides or amino acids from the N-terminal end of protein. Cystatin C has been studied for its role in predicting newonset or deteriorating cardiovascular disease. This cytokine is produced in a serum-free, chemically defined media.

#### Alternative Names

ARMD11, CST3, Cystatin 3, cystatin C, Gamma trace, Post gamma globulin

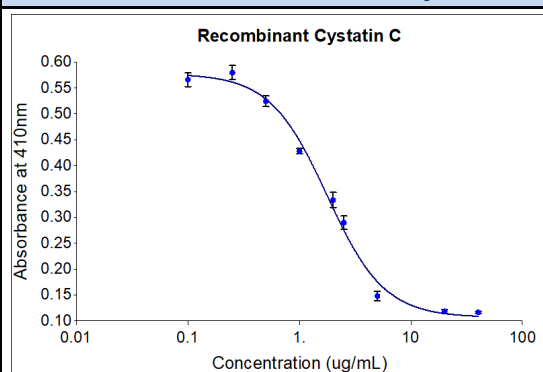
#### Source

Human Embryonic Kidney cells (HEK293). HEK293-derived Cystatin C protein

### Specifications

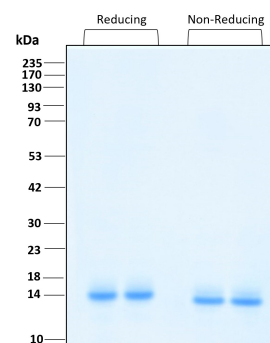
| Test           | Method   | Specification                           |
|----------------|--|---|
| Activity       | Dose-dependent inhibition of Papain protease activity by colorimetric assay using L-BAPA as the substrate. | 0.5-2.6 µg/mL EC50                      |
| Molecular Mass | SDS-PAGE   | 12 to 13 kDa, monomer, non-glycosylated |
| Purity         | SDS-PAGE   | >95%                                    |
| Endotoxin      | LAL  | <1 EU/ µg                               |

### Activity Data



Recombinant Human Cystatin C (HZ-1211) inhibits papain protease activity in a dose-dependent manner. Papain protease activity was measured by colorimetric assay using L-BAPA as the substrate. The EC50 was determined using a 4-parameter non-linear regression model. The EC50 values range from 0.5-2.6 µg/mL.

### SDS-PAGE



| Preparation          |   |
|----------------------|---|
| Shipping Temperature | ambient temperature   |
| Formulation          | 1x PBS, See Certificate of Analysis for details   |
| Reconstitution       | Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS pH 7.4. |

| Stability and Storage              | Product Form              | Temperature Conditions | Storage Time<br>(From Date of Receipt) |
|------------------------------------|---------------------------|------------------------|--|
|                                    | Lyophilized               | -20°C to -80°C         | Until Expiry Date                      |
|                                    | Lyophilized               | Room Temperature       | 2 weeks                                |
|                                    | Reconstituted as per CofA | -20°C to -80°C         | 6 months                               |
|                                    | Reconstituted as per CofA | 4°C                    | 1 week                                 |
| Avoid repeated freeze-thaw cycles. |                           |                        |  |

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