

Recombinant Human Cystatin C

Cystatin C HumaXpress

Product Description

- Endotoxin-free*
- Animal-derived product free
- Available in Bulk
- High Activity

Xeno-free Cystatin C^{HuXp} (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 new-onset or deteriorating cardiovascular disease. This cytokine is produced in a serum-free, chemically defined media.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	≤ 5 μM IC ₅₀
Purity	>95%
Endotoxin	<1 EU/μg
Molecular Mass	12 to 13 kDa, monomer, non-glycosylated
Formulation	1x PBS

Purity Confirmation

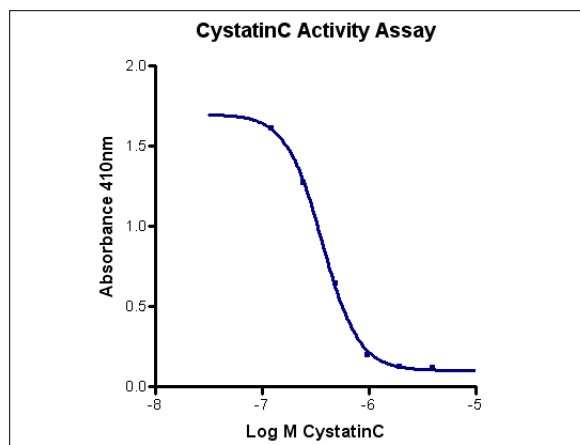
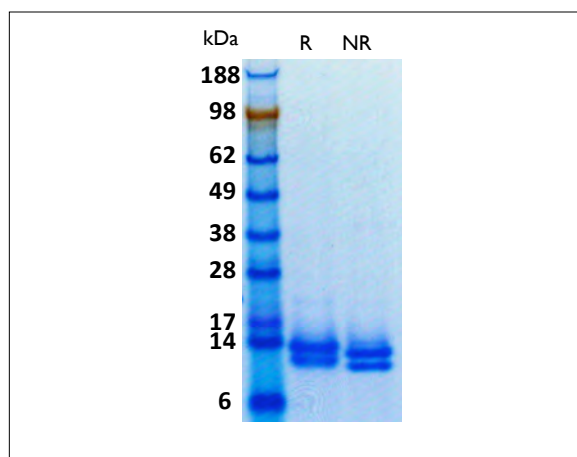
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

The inhibitory function of Cystatin C on papain's protease activity was measured by a colorimetric assay using L-BAPA as substrate. IC₅₀ value was measured at 5 to 20 μg/mL (0.3 to 1.5 μM) with a range of 1.56 μg/mL to 50 μg/mL Cystatin C in presence of 0.55 μM papain and 0.44 μM L-BAPA.



All HumaXpress[®] HumanKine[™] cytokines are animal-component-free and Xeno-free[™]



Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS.

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