HumanKine® Cystatin C, human recombinant, expressed in HEK 293 cells

Catalog Number H5041
Storage Temperature –20 °C

Product Description
HumanKine® human Cystatin C is expressed as a non-glycosylated monomer in human 293 cells and has an apparent molecular mass of 12–13 kDa.

Cystatin C belongs to the cystatin superfamily. Two isoforms (pI = 7.8, 9.2) of native Cystatin C are found in human urine differentiated by elimination of small basic peptides or amino acids from the N-terminal end of protein.

Cystatin C is used as a biomarker of kidney function.1 Recently, it has been studied for its role in predicting new-onset or deteriorating cardiovascular disease.2 It also seems to play a role in brain disorders involving amyloid, such as Alzheimer's disease.3 Cystatin C was reported to antagonize transforming growth factor beta signaling in normal and cancer cells.4

This product is lyophilized from a PBS solution.

IC50: ≤5 μM

The inhibitory function of Cystatin C on the protease activity of papain was measured by a colorimetric assay using L-BAPA as the substrate.

Purity: ≥95% (SDS-PAGE)

Endotoxin level: ≤1 EU/μg

Precautions and Disclaimer
For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage/Stability
Store the product at –20 °C. The lyophilized product remains active for one year at –20 °C.

Upon reconstitution, the cytokine can be stored at 2–8 °C for short term only, or at –20 °C to –80 °C in aliquots for long term. Avoid repeated freeze-thaw cycles.

References

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