Recombinant Human Cystatin 7/CST7 Protein (Fc Tag)

Catalog Number: PKSH031813



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Cystatin-F;Cystatin-T;Cystatin-Like Metastasis-Associated

Protein; CMAP; Leukocystatin; CST7

Species Human

Expression Host

Sequence

Met 1-His 145

Accession

NP_003641.3

Calculated Molecular Weight

Observed molecular weight

Tag

HEK293 Cells

Met 1-His 145

NP_003641.3

50 kDa

C-hFc

Bioactivity Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic

peptide substrate Z-LR-AMC (R&D Systems, Catalog#ES008). The IC50 value is <

5 nM.

Properties

Purity > 97 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

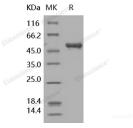
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

The cystatin superfamily members are important natural cysteine protease inhibitors present in a wide variety of organisms and are divided into three classes. Cystatin F, also known as leukocystatin and CMAP (Cystatin-like Metastasis-Associated Protein), is a type 2 cystatin and its expression is limited to hematopoietic cells, with the highest expression levels being observed in monocytes, dendritic cells, and certain types of T-cells. Furthermore, cystatin F mRNA becomes

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up-regulated during dendritic cell maturation, and thus suggests a specific role of cystatin F in immune regulation. Cystatin F is produced as a dimer, an inactive cathepsin inhibitor which is activated by chemical reduction. In addition, Cystatin F and its homologues have been observed expressing in various human cancer cell lines established from malignant tumors, and thus indicates a new diagnosis and prevention approach of certain human carcinomas metastasis.

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