Recombinant Human Cystatin-D/CST5 Protein

Catalog No.: RP01035

Sequence Information

Species
Human

Gene ID
1473

Swiss Prot
P28325

Tags
C-His

Synonyms
CST5,MGC71922,CST5

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
14.70 kDa

Observed MW
15-25 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Cystatins are natural inhibitors of papain-like (family C1) and legumain-related (family C13) cysteine peptidases. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and the kininogens. As a member of type 2 cystatin, cystatin D is a single-domain protein and also has cysteine residues that form disulfide bridges. The functions of Cystatin D are largely unknown. However, Cystatin D has been shown to inhibit coronavirus replication at its physiological concentration (0.12_x005f

Basic Information

Description
Recombinant Human Cystatin-D/CST5 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly21-Val142) of human Cystatin D (Accession #NP_001891.2) fused with a 6×His tag at the C-terminus.

Activity
Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate Z-FR-AM. The IC50 value is <18 nM.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

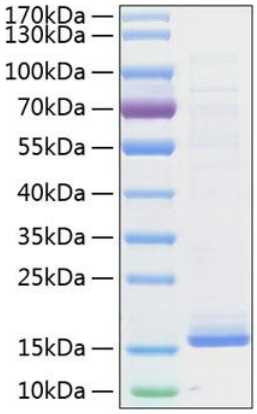
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

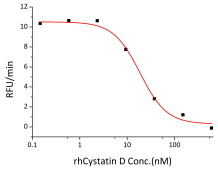
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human Cystatin-D/CST5 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human CST6 inhibits papain cleavage of a fluorogenic peptide substrate Z-FR-AMC (Catalog # ES009). The IC50 value is <18 nM.