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Datasheet for ABIN7519911
CST5 Protein (His tag)

Overview

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| Quantity: | 50 µg |
| Target: | CST5 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This CST5 protein is labelled with His tag. |

Product Details

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| Purpose: | Active Recombinant Human Cystatin-D/CST5 Protein |
| Sequence: | GSASAQSRTL AGGIHATDLN DKSVQCALDF AISEYNKVIN KDEYYSRPLQ VMAAYQQIVG GVNYFFNVKF GRTTCTKSQP NLDNCPFNDQ PKLKEEEFCS FQINEVPWED KISILNYKCR KV |
| Specificity: | Gly21-Val142 |
| Purity: | > 90 % by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | < 0.1 EU/µg of the protein by LAL method. |
| Biological Activity Comment: | Measured by its ability to inhibit papain cleavage of a fluorogenic peptide substrate Z-FR-AM. The IC50 value is <18 nM. |

Target Details

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| Target: | CST5 |
| Alternative Name: | Cystatin-D/CST5 (CST5 Products) |
| Background: | <p>Description: 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</p> <p>Name: CST5,MGC71922,CST5</p> |
| Gene ID: | 1473 |
| UniProt: | P28325 |

Application Details

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| Restrictions: | For Research Use only |
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Handling

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| Format: | Lyophilized |
| 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 stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles. |
| Buffer: | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. |