Datasheet for ABIN7318377

# CST6 Protein (His tag)

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## Overview

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| Quantity: | 50 µg |
| Target: | CST6 |
| Origin: | Human |
| Source: | Human Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CST6 protein is labelled with His tag. |

## Product Details

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| Purpose: | Recombinant Human Cystatin E/CST6 Protein (His Tag) |
| Sequence: | Arg29-Met 149 |
| Characteristics: | Recombinant Human Cystatin E/Cystatin M is produced by our Mammalian expression system and the target gene encoding Arg29-Met149 is expressed with a 6His tag at the C-terminus. |
| Purity: | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method. |

## Target Details

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| Target: | CST6 |
| Alternative Name: | Cystatin E/CST6 (CST6 Products) |
| Background: | Background: Cystatin-M is a typical secretory protein. It is synthesized as a preprotein with a patent N-terminal signal sequence.It belongs to the cystatin family. The most widely accepted function of cystatins is that of protease inhibitors. Most cysteine proteases are confined within |

## Target Details

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| | cells where optimal pH and redox conditions favor their enzymatic activity. Thus, the majority of intracellular cysteine proteases are inactivated by oxidizing conditions outside the cells. Among the various types of intracellular cysteine proteases, cystatins seem to target preferentially endosomal/lysosomal cysteine proteases of the papain family, such as cathepsin B, cathepsin K/O2, cathepsin L, cathepsin L2/V and cathepsin S. Another important function of Cst6 seems to be in the terminal differentiation of stratified squamous epithelial cells and in the formation of cornified envelops. Cst6 is believed to be important in fine-tuning the enzymatic activities of endosomal/lysosomal cysteine proteases such as cathepsin L, cathepsin L2/V and AEP/mammalian legumain. Deregulated activity of these proteases could lead to abnormal activation of transglutaminases and disorders in cornification.<br>Synonym: Cystatin-M, Cystatin-6, Cystatin-E, CST6 |
| Molecular Weight: | 14.7 kDa |
| UniProt: | Q15828 |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from a 0.2 μm filtered solution of 20 mM MES, 150 mM NaCl, pH 5.5. |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | 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. |