Cathepsin E Protein, Rat (HEK293, His)

Cat. No.:	HY-P74344
Synonyms:	Cathepsin E; CTSE; CATE
Species:	Rat
Source:	HEK293
Accession:	AAH62002 (M1-P398)
Gene ID:	25424
Molecular Weight:	Approximately 42.1 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 12.5 mM MES, 75 mM NaCl, 50 % Glycerol, pH 6.5. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Cathepsin E is an aspartic protease and member of the peptidase A1 protease family, expressed primarily in the immune system, gastrointestinal system, lymphoid tissue, red blood cells and cancer cells. Cathepsin E decomposes proteins by hydrolyzing peptide bonds at specific peptide sequence sites and plays an important role in protein degradation, bioactive protein production and antigen processing. Cathepsin E is involved in the execution of age-induced neuronal death pathways, as well as overstimulation of glutamate receptors by excitotoxins and transient forebrain ischemia. Cathepsin E may play a role in intestinal metaplasia and differentiation into highly differentiated adenocarcinomas and in dendritic cells [1][2][3][4].

Caution: Product has not been fully validated for medical applications. For research use only.

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