

Recombinant Mouse Cathepsin E, His-tagged

Cat. No. Ctse-749M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse cathepsin E was fused at the C-terminus to a His•Tag sequence and expressed <i>NSO cells</i> . MW = 44 kDa.
Species	Mouse
Source	Mammalian Cells
Description	Cathepsin E is an intracellular aspartic protease of the pepsin family that has been reported to be involved in the cleavage of the Swedish mutant of amyloid precursor protein (APP). Due to glycosylation the apparent molecular weight of the dimer is ~100 kDa under non-reducing conditions. Requires activation prior to use.
Purity	≥95 by SDS-PAGE.
Form	Liquid. In 75 mM NaCl, 12.5 mM MES, 50% glycerol, pH 6.5, sterile-filtered. Please refer to vial label for lot-specific concentration.
Recommended Reaction Conditions	Activation Protocol: Pre-incubate Cathepsin E for 15 min. at room temperature, at a concentration of 1 µg/ml in 50 mM sodium acetate buffer, pH 3.5, containing 100 mM NaCl. Activity: Optimal activity is achieved in 50 mM sodium acetate buffer, pH 3.5, containing 100 mM NaCl, room temperature.
Endotoxins	≤1.0 EU/µg enzyme.
Specific Activity	≥8 units/µg.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Unit Definition	One unit is defined as the amount of enzyme that will cleave 1 nmol MCA-PLGL(3-DP A-diaminopropionyl)-AR-NH ₂ at 25°C, pH 3.5.
Toxicity	Standard Handling (MSDS available upon request).
Storage	≤ -70°C. Avoid freeze/thaw. Following initial thaw, aliquot and freeze (-70°C).
GENE INFORMATION	
Gene Name	Ctse cathepsin E [Mus musculus]
Synonyms	Ctse; cathepsin E; CE; CatE; A430072O03Rik; C920004C08Rik; cathepsin E; OTTMUSP00000025900; OTTMUSP00000025901
Gene ID	13034
mRNA Refseq	NM_007799
Protein Refseq	NP_031825
UniProt ID	P70269
Chromosome Location	1 F; 1 69.1 cM
Pathway	Lysosome
Function	aspartic-type endopeptidase activity; peptidase activity; protein homodimerization activity

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