Recombinant Rat Ctss protein(Met1-Ile318), His-tagged

Cat. No. Ctss-1113R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ctss (Met1-Ile318) was expressed in HEK293 with a polyhistidine tag at the C-terminus.
Species	Rat
Source	HEK293
ProteinLength	1-318 a.a.
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVENval-WRK (Dnp)-NH2. The specific activity is >300 pmoles/min/μg. (Activation description: The enzyme achieves its activity under acidic pH)
Molecular Mass	The recombinant rat Ctss consists 329 amino acids and predicts a molecular mass of 37.3 kDa.
Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein

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	be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Ctss cathepsin S [Rattus norvegicus]
Official Symbol	Ctss
Synonyms	CTSS; cathepsin S;
Gene ID	50654
mRNA Refseq	NM_017320
Protein Refseq	NP_059016

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