
Product Data Sheet

Product Name: CTSZ Human, Sf9
 Cat. No.: GP21514
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cathepsin Z; Cathepsin X; Cysteine-Type Carboxypeptidase; Lysosomal Carboxypeptidase B; Carboxypeptidase LB; Cathepsin B2; Cathepsin IV; Cathepsin Z1; Cathepsin P; Cathepsin Y; EC 3.4.18.1; Preprocathepsin P; CTSX.		
Amino Acid Sequence	GLYFRRGQTC YRPLRGDGLA PLGRSTYPRP HEYLSPADLP KSWDWRNVDG VNYASITRNQHQPQYCGSCW AHASTSAMAD RINIKRKGAW PSTLLSVQNV IDCNGAGSCE GGNDLSVWDYAHQHGPDET CNNYQAKDQE CDKFNQCGTC NEFKECHAIR NYTLWRVGDY GSLSGREKMMAEIYANGPIS CGIMATERLA NYTGGIYAEY QDTTYINHVV SVAGWGISDG TEYWIVRNSWGEPWGERGWL RIVTSTYKDG KGARYNLAIE EHCTFGDPIV LEHHHHHH		
Formulation	CTSZ protein solution (0.5mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).		

Introduction

Cathepsin-Z (CTSZ) is a lysosomal cysteine proteinase and a member of the peptidase C1 family. CTSZ, which is known also as cathepsin X and cathepsin P, exhibits carboxy-monopeptidase and carboxy-dipeptidase activities. CTSZ is expressed ubiquitously in cancer cell lines and primary tumors and as other members of this family, takes part in tumorigenesis.

Biological Activity

The specific activity is determined as the ability of 1 unit to convert 1.0 pmole of Mca-PLGL-Dpa-AR-NH₂ to MCA- Pro-Leu-OH per minute at pH 3.5 at 25°C and is > 1,400 pmol/min/ug.

Stability

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

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

CTSZ produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 288 amino acids (24-303.a.) and having a molecular mass of 32.5kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa). CTSZ is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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