
Product Data Sheet

Product Name: CTSW Human
 Cat. No.: GP21512
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cathepsin W (Lymphopain); LYPN; lymphopain; EC 3.4.22.-.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSIRGPLRA QDLGPQPLEL KEAFKLFQIQ FNRSYLSPEE HAHRLDIFAH NLAQAQRLQE EDLGTAIEFGV TPFSDLTEEE FGQLYGYRRA AGGVPSMGRE IRSEEPESV PFSCDWRKVA GAISPIKDQK NCNCCWAMAA AGNIETLWRI SFWDFVDVSV QELLDCGRCG DGCHGGFVWD AFITVLNNSG LASEKDYPFQ GKVRAHRCHP KKYQKVAWIQ DFIMLQNNH RIAQYLATYG PITVTINMKP LQLYRKGVIK ATPTTCDPQL VDHSVLLVGF GSVKSEEGIW AETVSSQSQP QPPHPTYWI LKNSWGAQWG EKGYFRLHRG SNTCGITKFP LTARVQKPDM KPRVSCPP.		
Formulation	The CTSW solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

CTSW protein belongs to the peptidase C1 family. CTSW is a cysteine proteinase with a detailed role in the regulation and mechanism of T-cell cytolytic activity. The encoded CTSW is linked to the membrane inside the endoplasmic reticulum of natural killer and cytotoxic T-cells. CTSW expression is up-regulated by interleukin-2.

Stability

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). Avoid multiple freeze-thaw cycles.

Background

CTSW Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 378 amino acids (22-376) and having a molecular mass of 42.0 kDa.

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

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CTSW is fused to a 23 amino acid His-tag at N-terminus.

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