
Product Data Sheet

Product Name: CTSE Human
 Cat. No.: GP21506
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | CathepsinE; EC 3.4.23.34; CATE; Erythrocyte Membrane Aspartic Proteinase; Slow-MovingProteinase; EC 3.4.23. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSTESCSMD QSAKEPLINY LDMEYFGTIS IGSPQNFTV IFDTGSSNLWVPSVYCTSPA CKTHSRFQPS QSSTYSQPGQ SFSIQYGTGS LSGIIGADQV SVEGLTVVGQ QFGESVTEPGQTFVDAEFDG ILGLGYPSLA VGGVTPVFDN MMAQNLVDLP MFSVYMSSNP EGGAGSELIF GGYDHSHFSG SLNWVPVTKQ AYWQIALDNMLWSVPTLTSC RMSPSPLTES PIPSAQLPTP YWTSWMECSS AAVAFKDLTS TLQLGPSGSW GMSSFDSFTQSLTVGITVWD WPQQSPKEGP CVCACLSDRP | | |
| Formulation | CTSE protein solution (1mg/ml) containing 20mM Tris-HClbuffer (pH 8.0), 0.4M urea and 10% glycerol. | | |

Introduction

Cathepsin-E also known as CTSE is a gastric aspartyl protease which functions as a disulfide-linked homodimer. CTSE belongs to the peptidase C1 family; furthermore it has specificity similar to pepsin A and cathepsin D. CTSE is an intracellular proteinase which does not seem to be involved in the digestion of dietary protein and is found in the uppermost concentration in the surface of epithelial mucus-producing cells of the stomach. CTSE is the first aspartic proteinase expressed in the fetal stomach and is discovered in more than half of gastric cancers. For that reason CTSE is an oncofetal antigen. In addition, transcript variants utilizing alternative polyadenylation signals and two transcript variants encoding different isoforms exist for this gene.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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

CTSE Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 330 amino acids (57-363 a.a) and having a molecular mass of 35.4kDa.

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