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32-6714: CTSZ Human, Sf9

Application :	Functional Assay
Alternative Name :	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.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered clear solution.
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.
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.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 95% as determined by SDS-PAGE.
Content :	CTSZ protein solution (0.5mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).
Storage condition :	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.
Amino Acid :	GLYFRRGQTC YRPLRGDGLA PLGRSTYPRP HEYLSPADLP KSWDWRNVDG VNYASITRNQHIPQYCGSCW AHASTSAMAD RINIKRKGAW PSTLLSVQNV IDCGNAGSCE GGNDLSVWDYAHQHGIPDET CNNYQAKDQE CDKFNQCGTC NEFKECHAIR NYTLWRVGDY GSLSGREKMMAEIYANGPIS CGIMATERLA NYTGGIYAEY QDTTYINHVV SVAGWGISDG TEYWIVRNSWGEPWGERGWL RIVTSTYKDG KGARYNLAIE EHCTFGDPIV LEHHHHHH

Application Note

The specific activity is determent 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 25C and is > 1,400 pmol/min/ug.