
Product Data Sheet

Product Name: CTSA Mouse
 Cat. No.: GP21501
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9 Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Lysosomal protective protein (EC:3.4.16.5); Carboxypeptidase C; Carboxypeptidase; Cathepsin A; Protective protein cathepsin A; PPCA; Protective protein for beta-galactosidase.		
Amino Acid Sequence	APDQDEIDCLPGLAKQPSFR QYSGYLRASD SKHFHYWFVE SQNDPKNSPV VLWLNGGPGC SSDLGLLTEH GPFLIQPDGVTLEYNPYAWN LIANVLYIES PAGVGFSYSYD DKMYVTNDTE VAENNYEALK DFFRLFPEYK DNKLFLTGESYAGIYIPTLA VLVMQDPSMN LQGLAVGNGL ASYEQNDNSL VYFAYYHGLL GNRLWTSLQT HCCAQNKCIFYDNKDPECVN NLLEVSRIVG KSGLNIIYNLY APCAGGVPGR HRYEDTLVVQ DFGNIFTRLP LKRRFPEALMRS GDKVRLDP PCTNTTAPSN YLNNPYVRKA LHIPESLPRW DMCNFLVNLQ YRRLYQSMNS QYLKLLSSQKYQILLYNGDV DMACNFMGDE WFVDSL NQKM EVQRRPWLV D YGESGEQVAG FVKEC SHITF LTIKGAGHMVPTDKPRAAFT MFSRFLNKEP YVEHHHHHHH.		
Formulation	CTSA protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

Cathepsin-A (CTSA) is a protective protein which is crucial for both the activity of beta-galactosidase and neuraminidase, CTSA associates with these enzymes and exerts a protective function required for their stability and activity. The CTSA protein is also a carboxypeptidase and can deamidate tachykinins. CTSA is a component of the lysosomal multienzyme complex along with beta-galactosidase and sialidase Neu1. CTSA is a multicatalytic enzyme with deamidase and esterase in addition to carboxypeptidase activities.

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). Avoid multiple freeze-thaw cycles.

Background

CTSA produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 459 amino acids (24-474 a.a.) and having a molecular mass of 52.4kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). CTSA is expressed with an 8 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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