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32-6707: CTSA Mouse

Alternative Name : Lysosomal protective protein (EC:3.4.16.5), Carboxypeptidase C, Carboxypeptidase, Cathepsin A, Protective protein cathepsin A, PPCA, Protective protein for beta-galactosidase.

Description

Source: Sf9 Insect cells.
Sterile filtered colorless solution.
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.
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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	CTSA protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.
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).Avoid multiple freeze-thaw cycles.
Amino Acid :	APDQDEIDCL PGLAKQPSFR QYSGYLRASD SKHFHYWFVE SQNDPKNSPV VLWLNGGPGC SSLDGLLTEH GPFLIQPDGV TLEYNPYAWN LIANVLYIES PAGVGFSYSD DKMYVTNDTE VAENNYEALK DFFRLFPEYK DNKLFLTGES YAGIYIPTLA VLVMQDPSMN LQGLAVGNGL ASYEQNDNSL VYFAYYHGLL GNRLWTSLQT HCCAQNKCNF YDNKDPECVN NLLEVSRIVG KSGLNIYNLY APCAGGVPGR HRYEDTLVVQ DFGNIFTRLP LKRRFPEALM RSGDKVRLDP PCTNTTAPSN YLNNPYVRKA LHIPESLPRW DMCNFLVNLQ YRRLYQSMNS QYLKLLSSQK YQILLYNGDV DMACNFMGDE WFVDSLNQKM EVQRRPWLVD YGESGEQVAG FVKECSHITF LTIKGAGHMV PTDKPRAAFT MFSRFLNKEP YVEHHHHHH.

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