

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 QYSGYLRA SD SKHFHYWFVE SQNDPKNSPV VLWLNGGPGC
SSLDGLL TEH GPFLIQPDGV TLEYNPYAWN LIANVLYIES PAGVGFSYSD DKMYVTNDTE VAENNYEALK
DFFRLFP EYK DNKLFLTGES YAGIYIPTLA VLVMQDP SMN LQGLAVGNGL ASYEQNDNSL VYFAYYHGLL
GNRLWTS LQT HCCAQNKC NF YDNKDPECVN NLLEVSRI VG KSG LNIYNLY APCAGGV PGR HRYEDTLV VQ
DFGNIFTR LP LKRRFPEAL M RSGDKVRLDP PCTNTTAP SN YLNNPYVRKA LHIPESLPRW DMCNFLVNLQ
YRRLYQSM NS QYLKLLSSQK YQILLYNGDV D MACNFMGDE WFVDSL NQKM EVQRRPW LVD
YGESGEQV AG FVKECSHITF LTIKGAGH MV PTDKPRAAFT MFSRFLNKEP YVEHHHHHHH.