

Ctss, 21-340aa, Mouse, His tag, Baculovirus

Cat.NO.: TP01783

3th Edition

Synonyms:Ctss, Cathepsin S

Description:Ctss, as known as cathepsin S isoform 2, is a lysosomal cysteine protease of the papain family. This protein plays a major role in the processing of the MHC class II-associated invariant chain. It has been implicated in the pathogenesis of several diseases such as Alzheimer's disease and degenerative disorders associated with the cells of the mononuclear phagocytic system. Also, it is less abundant in tissues than Cathepsins B, L and H. The highest levels of this protein have been found in lymph nodes, spleen and phagocytic cells. Recombinant mouse Ctss, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight:37.2kDa (328aa), 28-40kDa (SDS-PAGE under reducing conditions.).

Sequences:

VAMEQLQRDPTLDYHWDLWKKTHEKEYKDKNEEEVRRLIWEKNLKFIMIHNLEYSMGMHTYQVGMNDMGDMTNE
EISCRMGALRISRQSPKTVTFRSYSNRTLPTVDWREKGCVTEVKYQGSCGACWAFSAVGALEGQLKLKTGKLISL
SAQNLVDCSNEEKYGNKCGGGYMTEAFQYIIDNNGGIEADASYPKAMDEKCHYNSKNRAATCSRYIQLPFGDED
ALKEAVATKGPVSVGIDASHSSFFFYKSGVYDDPSCTGNVNHGVLVVGYGTLDGKDYWLKNSWGLNFGDQGYIR
MARNNKNHCGIASYCSYPEILEHHHHHHHDYWLKNSWGLNFGDQGYIRMARNNKNHCGIASYCSYPEILEHHHHH
H

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.