

Recombinant Mouse CtSD Protein, His-tagged

Cat. No. CtSD-2369M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse cathepsin D (CtSD) with a C-His tag was expressed in HEK293.
Species	Mouse
Source	HEK293
Description	Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation.
Molecular Mass	43.9 kDa
AA Sequence	IIRIPLRKFTSIRRTMTEVGGSVEDLILKGPI TKYSMQSSPKTTEPVSELLKNYLDAQYY GDIGIGTPPQCFTVVFDTGSSNLWVPSIHCKILDIACWVHHKYNSDKSSTYVKNGTSF DIHYGSGSLSGYLSQDTVSVPCSKDQSKARGIKVEKQIFGEATKQPGIVFVAAKFDGI LGMGYPHISVNNVLPVFDNLMQQKLVDKNIFS FYLNRPDPEGQPGGELMLGGTDSKY YHGELSYLNVTRKAYWQVHMDQLEVGNELTLCKGGCEAIVDTGTSLLVGPVEEVKE LQKAIGAVPLIQGEYMIPCEKVSSLPTVYLLKGGKNYELHPDKYILKVSQGGKTICLSG FMGMDIPPPSGPLWILGDVFIGSYYTVFDRDNNRVGFANAVVLVDHHHHHH
Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 µM filtered solution of 20 mM MES, 150 mM NaCl, pH 5.5
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in 1×PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	Ctsd cathepsin D [Mus musculus (house mouse)]
Official Symbol	Ctsd
Synonyms	CTSD; cathepsin D; CD; CatD
Gene ID	13033
mRNA Refseq	NM_009983
Protein Refseq	NP_034113
UniProt ID	P18242

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