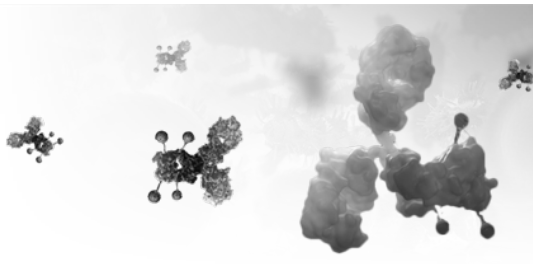

CTSD peptide (DAG-P0245)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease. [provided by RefSeq, Jul 2008]
Specificity	Expressed in the aorta extrcellular space (at protein level).
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the peptidase A1 family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	CTSD cathepsin D [Homo sapiens (human)]
Official Symbol	CTSD
Synonyms	CTSD; cathepsin D; CPSD; CLN10; HEL-S-130P; lysosomal aspartyl protease; lysosomal aspartyl peptidase; ceroid-lipofuscinosis, neuronal 10; epididymis secretory sperm binding

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	protein Li 130P;
Entrez Gene ID	1509
mRNA Refseq	NM_001909.4
Protein Refseq	NP_001900.1
UniProt ID	P07339
Chromosome Location	11p15.5
Pathway	Adaptive Immune System, organism-specific biosystem; Ceramide signaling pathway, organism-specific biosystem; Collagen degradation, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Immune System, organism-specific biosystem; LKB1 signaling events, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved
Function	aspartic-type endopeptidase activity; protein binding;

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