Creative Enzymes®

Native Human Cathepsin H

Cat. No. NATE-0176

Lot. No. (See product label)

Introduction

Description	Cathepsin H is a protein that in humans is encoded by the CTSH gene. The protein encoded by this gene is a lysosomal cysteine proteinase important in the overall degradation of lysosomal proteins. It is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. The encoded protein, which belongs to the peptidase C1 protein family, can act both as an aminopeptidase and as an endopeptidase. Increased expression of this gene has been correlated with malignant progression of prostate tumors. Two transcript variants encoding different isoforms have been found for this gene.
Synonyms	CTSH; cathepsin H; CPSB; ACC-4; ACC-5; ACC4; ACC5; CPSB; minichain

Product Information

Species	Human
Source	Human Liver
Form	Liquid
Molecular Weight	28 kDa
Purity	> 95% (SDS-PAGE)
Optimum pH	4.5
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem
Function	HLA-A specific activating MHC class I receptor activity; aminopeptidase activity; apoptotic protease activator activity; cysteine-type endopeptidase activity; cysteine-type peptidase activity; endopeptidase activity; kininogen binding; peptidase activity; protein binding; serine-type endopeptidase activity; thyroid hormone binding

Storage and Shipping Information

Storage	-40°C