Recombinant Mouse Cathepsin H/CTSH Protein (aa 22-333, His Tag)

Catalog No. PKSM041210

Note: Centrifuge before opening to ensure complete recovery of vial contents.

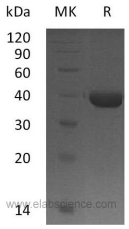
Description

Synonyms	Pro-cathepsin H; CTSH; ACC-4; ACC-5; aleurain; cathepsin B3; cathepsin BA; cathepsin H; CPSB; minichain; N-benzoylarginine-beta-naphthylamide hydrolase
Species	Mouse
Expression Host	Human Cells
Sequence	Glu22-Val333
Accession	AAA82966.1
Calculated Molecular Weight	36.1 kDa
Observed molecular weight	36-40 kDa
Tag	C-6His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH7.4.
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

Cathepsin H (CTSH), which can act both as an aminopeptidase and as an endopeptidase, is a lysosomal cysteine protease of the papain family. CTSH is composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. CTSH is associated with various pathological conditions like human fibrous meningioma, colorectal cancer, arthritis, human prostate tumor and lung cancer. CTSH is associated with cancer progression because of their ability to degrade extracellular matrices facilitating invasion, angiogenesis and metastasis as is evident from numerous clinical reports and experimental models. The expression of CTSH is significantly increased in disease states

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such as in prostate tumors, sera of asthmatic patients, and mucosa of colorectal cancer patients.

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