

Cathepsin G Active Protein | CTSG active protein

Cathepsin G protein

CATALOG #
AAA75222

HOST
Human Neutrophil

PRODUCT SYNONYMS

Cathepsin G; Cathepsin G protein; CTSG active protein

PRODUCT SPECIFICATIONS

Host	Human Neutrophil
Purity/Purification	>95% pure by SDS-PAGE
Form/Format	Lyophilized from 86.2ul de-ionized water. Salf Free. Centrifuge vial briefly prior to opening. Reconstitute with 50mM Acetate, pH5.5 with 150mM NaCl, followed by gentle mixing to ensure adequate homogenization.
Concentration	Pre-lyophilization Protein Concentration: 1.16mg/mL (varies by lot)
Sequence Length	255
Protein Type	Native
Biological Significance	Cathepsin G is an enzymatic protein belonging to the peptidase or protease families. In humans, it is coded by the CTSG gene. This enzyme degrades collagen and proteoglycan and can also cause the release of angiotensin II from angiotensin I or angiotensinogen. It has been implicated in connective tissue diseases such as emphysema and rheumatoid arthritis.
Bioactivity	2-4 units/mg - One unit of activity is defined as the amount of enzyme that hydrolyzes one micromole of Suc-ala-ala-pro-phe-pNA (1mM) per minute at 25o C in 160 mM Tris-HCl, pH 7.4, with 1.6 M NaCl.
Contaminants	None detected by SDS-PAGE
Grade	Immunogen
Additional Remarks	Biological activity = 2-4 Units/mg. 1 unit of activity is defined as the amount of enzyme that hydrolyzes 1 uM of Suc-ala-ala-pro-phe-pNA per minute at 25°C in 160mM Tris-HCl, pH7.4, with 1.6M NaCl.
Preparation and Storage	Upon receipt store at -20°C.

ADDITIONAL INFORMATION

Related Product Information for CTSG active protein	Purified native Human Cathepsin G protein
Product Categories/Family for CTSG active protein	Proteases ; Inhibitors ; & Enzymes ; Native Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	179915
NCBI GeneID	1511
UniProt Accession #	P08311 ; Q6IBJ6 ; Q9UCA5 ; Q9UCU6
NCBI Official Full Name	cathepsin G

NCBI Official Synonym Full Names	cathepsin G
NCBI Official Symbol	CTSG
NCBI Official Synonym Symbols	CG; CATG
NCBI Protein Information	cathepsin G
UniProt Protein Name	Cathepsin G
UniProt Gene Name	CTSG
UniProt Synonym Gene Names	CG
UniProt Entry Name	CATG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-neutrophil-active-protein/cathepsin-g/75222>