

## Product datasheet for BA117

### Cathepsin G Human Protein

#### Product data:

Product Type:	Native Proteins
Description:	Cathepsin G human protein, 0.1 mg
Species:	Human
Protein Source:	Neutrophils
Purity:	>95% pure (SDS-PAGE)
Buffer:	Presentation State: Purified State: Lyophilized purified fraction (>95% by SDS-PAGE) containing no preservatives.
Bioactivity:	Biological (Lot dependent): 2-4 U/mg protein. 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 25°C in 160 mM Tris HCl, pH 7.4 containing 1.6 M NaCl.
Reconstitution Method:	Reconstitute with 86.2 µL using 50 mM Na Acetate, pH 5.5, with 150 mM Sodium Chloride as the buffer to be added to the salt-free lyophilized solid.
Preparation:	Lyophilized purified fraction (>95% by SDS-PAGE) containing no preservatives.
Protein Description:	Human Neutrophil Cathepsin G
Note:	Caution: All human source materials have tested negative for HIV 1, HIV 2 and non-reactive for anti-HCV, HBsAg and anti-HBc. No test guarantees a product to be non-infectious. Therefore, all materials derived from human fluids or tissues should be considered as potentially infectious.
Storage:	Store the antigen upon receipt at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: six months from despatch.
RefSeq:	<a href="#">NP_001902</a>
Locus ID:	1511
Cytogenetics:	14q12
Synonyms:	CATG; CG



[View online »](#)

**Summary:**

The protein encoded by this gene, a member of the peptidase S1 protein family, is found in azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation. In addition, the encoded protein is antimicrobial, with bacteriocidal activity against *S. aureus* and *N. gonorrhoeae*. Transcript variants utilizing alternative polyadenylation signals exist for this gene. [provided by RefSeq, Sep 2014]

**Protein Families:**

Druggable Genome, Protease

**Protein Pathways:**

Lysosome, Neuroactive ligand-receptor interaction, Renin-angiotensin system, Systemic lupus erythematosus