

Recombinant Human Granzyme K (Granzyme 3; Tryptase II)

Cat. No. GZMK-626H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Granzyme K (Granzyme 3; Tryptase II) is produced in <i>E.coli</i> . MW=26kDa.
Species	Human
Source	E.coli
Description	Granzyme K is a protein that in humans is encoded by the GZMK gene. This gene product is a member of a group of related serine proteases from the cytoplasmic granules of cytotoxic lymphocytes. Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface "nonself" antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here lacks consensus sequences for N-glycosylation present in other granzymes.
Concentration	0.2mg/ml.
Formulation	Liquid. Recombinant protein in PBS containing glycerol. Does not contain any preservatives.
Endotoxin Content	<0.1EU/g purified protein (LAL test; Bio Whittaker).
Specific Activity	~29U/g protein. One unit is defined as the amount of enzyme that hydrolyzes 1nmol Z-Lys-SBzl per min. at 25°C in 0.05M TRIS, pH 8.0, containing 0.15M NaCl, 0.01%

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Triton X-100 and 0.3mM DTNB.

Storage And Stability

Stable for at least 6 months when stored at -80°C. Dilute solutions (e. g. 1-1000ng/ml) should be used within 24 hours.

Handling

For maximum product recovery after thawing, centrifuge the vial before opening the cap. After opening, prepare aliquots and store at -80°C.

GENE INFORMATION

Gene Name

GZMK granzyme K (granzyme 3; tryptase II) [Homo sapiens]

Synonyms

GZMK; granzyme K (granzyme 3; tryptase II); NK-Tryp-2; NK-tryptase-2; fragmentin-3; granzyme 3; granzyme K; granzyme K (serine protease, granzyme 3; tryptase II); granzyme-3; tryptase II; TRYP2; EC 3.4.21.-

Gene ID

3003

mRNA Refseq

NM_002104

Protein Refseq

NP_002095

MIM

600784

UniProt ID

P49863

Chromosome Location

5q11-q12

Function

peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity

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