



Recombinant Mouse Granzyme B

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

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|------------------|----------------------------|
| Cat.-no.: | M10-117S |
| Size: | 2 µg |
| Lot. No.: | According to product label |

Scientific Background

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|------------------------|---|
| Gene-ID (NCBI): | 14939 |
| Synonyms: | Gzmb; GZB; CCP1; CtlA1; CtlA-1; AI553453; CCP-1/C11 |

Granzyme family serine proteases are stored in the granules of cytotoxic T lymphocytes and natural killer cells. Granzymes contain one S1 protease domain and are synthesized as preproteins. Granzymes are released toward pathogen infected or transformed target cells during cellular immune reactions. Target cell entry by granzymes is through perforin channels. Granzymes trigger apoptosis by caspase-dependent and -independent mechanisms. There are five granzymes (A, B, G, H and K) in human and many more in mouse and rat.

Sequence

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IIGGHEVKPH SRPYMALLSI KDQQPEAICG GFLIREDFVL  
TAAHCEGSII NVTLGAHNIK EQEKTQQVIP MVKCIHPHDY  
NPKTFNSDIM LLKLLKSKAKR TRAVRPLNLP RRNVNVKPGD  
VCYVAGWGRM APMGKYSNTL QEVELTVQKD RECESYFKNR  
YNKTNQICAG DPKTKRASFR GDSSGPLVCK KVAAGIVSYG  
YKDGSPPRAF TKVSSFLSWI KTKMKSS
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Database References

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|------------------------|-------------|
| Protein RefSeq: | NP_004122.2 |
| Uniprot ID: | P10144 |
| mRNA RefSeq: | NM_004131.4 |

Product Specifications

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|------------------------|------------------------------------|
| Expressed in | Insect cells |
| Purity | > 98% by SDS-PAGE & HPLC analyses |
| Endotoxin level | < 0.1 ng /µg of protein (<1EU/µg). |
| Formulation | lyophilized |
| Length (aa): | 227 |
| MW: | 28.9 kDa |

Biological Activity: Determined by its ability to cleave a synthetic chromogenic Granzyme B substrate. The expected specific activity, when using the Ac-IEPD-pNA substrate at 250C, is greater than 750 nM/min per µg of enzyme.



AVOID REPEATED FREEZE AND THAW CYCLES!