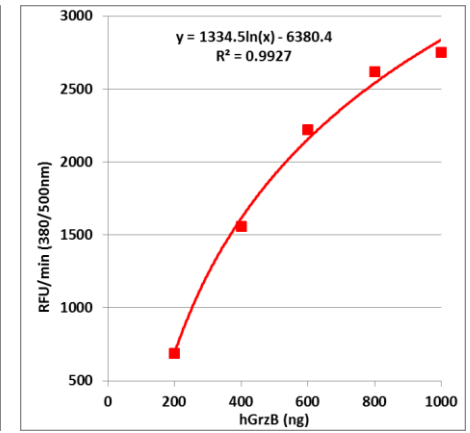
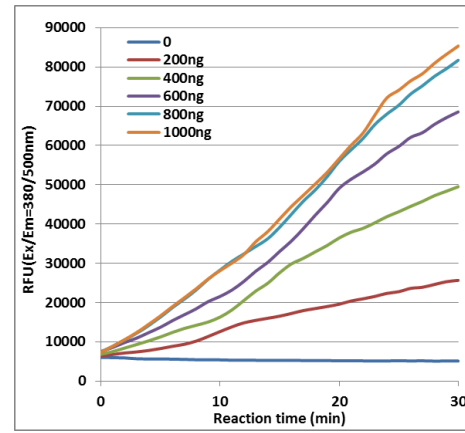


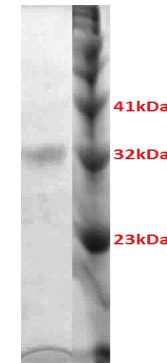
Granzyme B, Human Recombinant (Insect)

CATALOG #:	4728-5	5 µg
SOURCE:	Insect Cells	
PURITY:	≥90% by SDS-PAGE	
SPECIFIC ACTIVITY:	≥20 mU/mg	
MOL. WEIGHT:	32 kDa (227 aa, 21-247)	
FORMULATION:	Lyophilized powder from 0.22 µm filtered solution in PBS containing 8% trehalose.	
STORAGE CONDITIONS:	Stable for 1 year at -70 °C. After reconstitution, aliquot and store at -20 °C and use within 3 months. Avoid repeated freeze-thaw cycles.	
RECONSTITUTION:	Use 50 µl sterile D.I. water to dissolve 5 µg protein to a final conc of 0.1 µg protein/µl	
DESCRIPTION:	Granzyme B (GZMB) is a serine protease stored in granules of activated cytotoxic T cells and NK cells. Upon target cell contact, granzyme B is directionally exocytosed and assisted by perforin, enters the target cell. With its unique substrate specificity (granzyme B cleaves after Asp), granzyme B processes and activates various pro-caspases thereby inducing apoptosis in the target cell.	
APPLICATION:	Active GZMB is useful in studying enzyme regulation, determining target substrates, screening GZMB inhibitors, or as a positive control in GZMB activity assays.	
BIOLOGICAL ACTIVITY:	Activity of GZMB was tested using the synthetic peptide, Ac-IETD-AFC, as a substrate. GZMB releases AFC and then the GZMB activity can be quantified by fluorescent detection of free AFC at Ex/Em=380/500 nm.	
UNIT DEFINITION:	One unit of Granzyme B is defined as the amount of enzyme that hydrolyzes 1 µmol/min of Ac-IETD-AFC per min at 37 °C in 50 mM HEPES, pH 7.5, 10 mM CaCl ₂ .	



GzmB Activity Assay: The activity of GZMB was determined using 100 µM substrate IETD-AFC in a buffer containing 50 mM HEPES, pH 7.5 containing 10 mM CaCl₂ at 37°C.

SDS-PAGE analysis of rhGranzyme B



RELATED PRODUCTS:

- Granzyme A, human recombinant (Cat. No. 4279-10, -50, -1000)
- Granzyme B, human recombinant (Cat. No. 1118-5)
- Granzyme B Antibody (Cat. No. 3073R-100)
- Granzyme B Blocking Peptide (Cat. No. 3073BP-50)
- Granzyme B, M Antibody (Clone B18.1) (Cat. No. 3073-100)
- Granzyme B Inhibitor Ac-IETD-CHO (Cat. No. 1119-1)
- Granzyme B Inhibitor Z-AAD-CH2Cl (Cat. No. 1128-20C)

FOR RESEARCH USE ONLY! Not to be used on humans.