

Overview

Synonyms	Granzyme B, Mouse
Description	<p>Granzyme B is a serine protease most commonly found in the granules of cytotoxic lymphocytes (CTLs), natural killer cells (NK cells) and cytotoxic T cells. It is secreted by these cells along with the pore forming protein perforin to mediate apoptosis in target cells.</p> <p>Granzyme B has also recently been found to be produced by a wide range of non-cytotoxic cells ranging from basophils and mast cells to smooth muscle cells. The secondary functions of granzyme B are also numerous. Granzyme B has been shown to be involved in inducing inflammation by stimulating cytokine release and is also involved in extracellular matrix remodeling.</p> <p>Recombinant Mouse Granzyme B produced in <i>CHO</i> cells is a polypeptide chain containing 227 amino acids. A fully biologically active molecule, rmGranzyme B has a molecular mass of 32 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Accession No	P04187
Species	Mouse
Source	<i>CHO</i>
Biological Activity	Measured by its ability to cleave a chromogenic peptide substrate (Ac-IEPD-pNA), the specific activity is greater than 1000 nM/min per µg of enzyme.
Sequence	<p>IIGGHEVKPH SRPYMALLSI KDQQPEAICG GFLIREDFVL</p> <p>TAAHCEGSII NVTLGAHNIK EQEKTQQVIP MVKCIPHPDY</p> <p>NPKTFSNDIM LLKLKSKAKR TRAVRPLNLP RRNVNVKPGD</p> <p>VCYVAGWGRM APMGKYSNTL QEVELTVQKD RECESYFKNR</p> <p>YNKTNQICAG DPKTKRASFR GDSGGPLVCK KVAAGIVSYG</p> <p>YKDGSPPRAF TKVSSFLSWI KKTMKSS</p>

Properties

Measured Molecular Weight	32 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Mouse Granzyme B remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, recombinant Mouse Granzyme B should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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