Data Sheet (Cat.No.TMPJ-00832)

TargetMol

Granzyme D/GZMD Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Granzyme D;Gzmd
Protein Construction:	Ile21-Leu252
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P11033
Molecular Weight:	80-90 KDa (reducing condition)
AA Sequence:	Ile21-Leu252

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 90% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM HEPES, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Granzyme D is a member of the granzyme family of the serine proteases which plays a role in the induction of apoptosis. T cells, lymphohematopoietic stromal cells, and granulated metrial gland cells express granzyme D, but the function of granzyme D is unknown. Previous studies reported that granzyme D is developmentally regulated during pregnancy together with granzymes E, F, and G in granulated metrial gland cells and is upregulated by IL-2 and IL-15. Granzyme D was also suggested to have a role in stromal cell-lymphocyte

interactions.