

# Active Granzyme M (GZMM) Instruction Manual

**SBPA127Hu01**

**Homo sapiens (Human)**

**Buffer Formulation**

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

**Traits**

Freeze-dried powder

**Purity**

> 90%

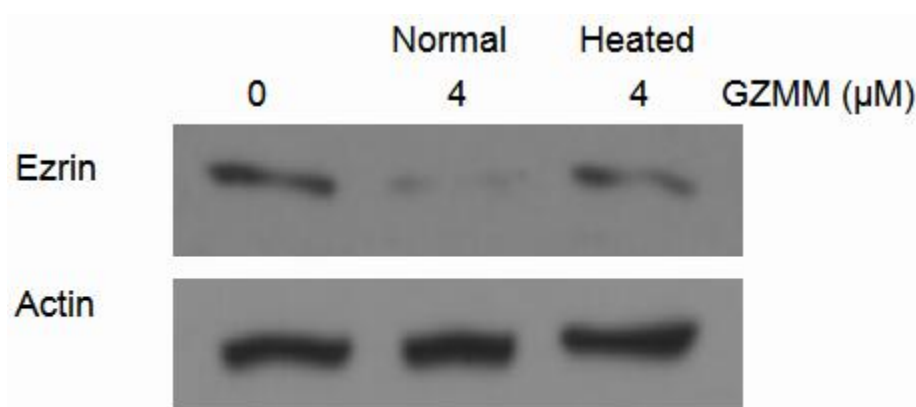
**Isoelectric Point**

10.3

**Applications**

Cell culture; Activity Assays.

**ACTIVITY TEST**



**Figure 1. GZMM cleaves Ezrin**

GZMM (Granzyme M) is one of the neutral serine proteases, which is specifically expressed by NK cells and mediates a novel major and perforin-dependent cell death pathway. Granzyme M has been proven to targets  $\alpha$ -Tubulin and disorganizes the microtubule network, besides, Ezrin has also been identified as a substrate of GZMM. Therefore, a catalytic assay was conducted to detect the protease activity of recombinant human GZMM using Hela cells lysates. Briefly, protein lysates were extracted from  $2 \times 10^7$  Hela cells using Lysis Buffer, then incubated with normal or inactivated GZMM in 37°C for 4h. Samples were immunoblotted using Abs  $\beta$ -actin as control, and Ezrin to detect the enzyme activity. The results were shown below. It is obvious that recombinant human GZMM cleaved Ezrin.

**USAGE**

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

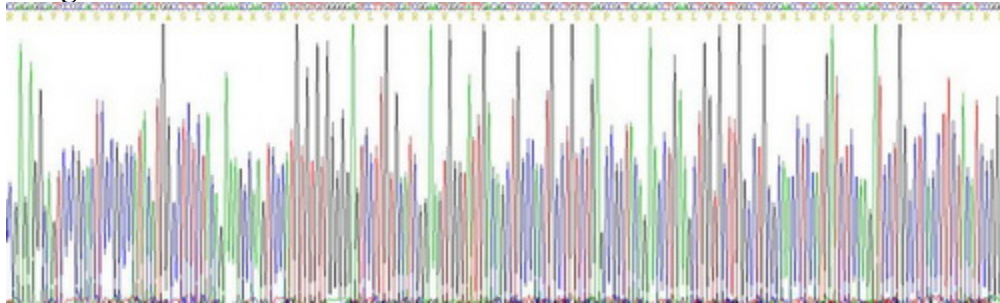
## STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

## STABILITY

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## Image



SDS-PAGE Image

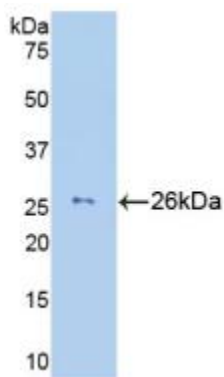


Figure. Western Blot; Sample: Recombinant GZMM, Human.

**[IMPORTANT NOTE]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.