



# Recombinant Human Granzyme A (GZMA)

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| <b>Product Code</b>      | CSB-MP010081HU   |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | P12544   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | ≥85% (SDS-PAGE)  |
| <b>Sequence</b>          | II GGNEVTPHSR PYMVLLSLDR KTICAGALIA KDWVLTAHC NLNKR SQVIL<br>GAHSITREEP TKQIMLVKKE FPYPCYDPAT REGDLKLLQL MEKAKINKYV<br>TILHLPKKG D VKPGTMCQV AGWGRTHNSA SWSDTLREVN ITIIDRKVCN<br>DRNHYNFNPV IGMNMCVAGS LRGGRDSCNG DSGSPLLCEG<br>VFRGVTSFGL ENKCGDPRGP GVIYILLSKKH LNWIIMTIKG AV  |
| <b>Source</b>            | Mammalian cell   |
| <b>Target Names</b>      | GZMA   |
| <b>Protein Names</b>     | Recommended name: Granzyme A EC= 3.4.21.78 Alternative name(s): CTL<br>tryptase Cytotoxic T-lymphocyte proteinase 1 Fragmentin-1 Granzyme-1<br>Hanukkah factor Short name= H factor Short name= HF   |
| <b>Expression Region</b> | 29-262   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at<br>4°C for up to one week.   |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.  |
| <b>Protein Length</b>    | Full Length of Mature Protein  |
| <b>Target Details</b>    | Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable<br>ability to recognize, bind, and lyse specific target cells. They are thought to<br>protect their host by lysing cells bearing on their surface nonself antigens,<br>usually peptides or proteins resulting from infection by intracellular pathogens.<br>The protein described here is a T cell- and natural killer cell-specific serine<br>protease that may function as a common component necessary for lysis of<br>target cells by cytotoxic T lymphocytes and natural killer cells. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the<br>contents to the bottom. Please reconstitute protein in deionized sterile water to a<br>concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final<br>concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final<br>concentration of glycerol is 50%. Customers could use it as reference.  |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients,<br>storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life<br>of lyophilized form is 12 months at -20°C/-80°C.   |