

GSDMC Protein, Human (His-SUMO)

Cat. No.:	HY-P71649
Synonyms:	Gasdermin C; Gasdermin-C; GSDMC; Melanoma derived leucine zipper, extra nuclear factor; Melanoma-derived leucine zipper-containing extranuclear factor; MLZE
Species:	Human
Source:	E. coli
Accession:	Q9BYG8 (M1-A508)
Gene ID:	56169
Molecular Weight:	Approximately 73.7 kDa

PROPERTIES

AA Sequence	<pre> M P S M L E R I S K N L V K E I G S K D L T P V K Y L L S A T K L R Q F V I L R K K K D S R S S F W E Q S D Y V P V E F S L N D I L E P S S S V L E T V V T G P F H F S D I M I Q K H K A D M G V N V G I E V S V S G E A S V D H G C S L E F Q I V T I P S P N L E D F Q K R K L L D P E P S F L K E C R R R G D N L Y V V T E A V E L I N N T V L Y D S S S V N I L G K I A L W I T Y G K G Q G Q G E S L R V K K K A L T L Q K G M V M A Y K R K Q L V I K E K A I L I S D D D E Q R T F Q D E Y E I S E M V G Y C A A R S E G L L P S F H T I S P T L F N A S S N D M K L K P E L F L T Q Q F L S G H L P K Y E Q V H I L P V G R I E E P F W Q N F K H L Q E E V F Q K I K T L A Q L S K D V Q D V M F Y S I L A M L R D R G A L Q D L M N M L E L D S S G H L D G P G G A I L K K L Q Q D S N H A W F N P K D P I L Y L L E A I M V L S D F Q H D L L A C S M E K R I L L Q Q Q E L V R S I L E P N F R Y P W S I P F T L K P E L L A P L Q S E G L A I T Y G L L E E C G L R M E L D N P R S T W D V E A K M P L S A L Y G T L S L L Q Q L A E A </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0 or PBS, 6% Irehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

GSDMC protein serves as the precursor to the pore-forming protein, and upon cleavage, the released N-terminal moiety, known as Gasdermin-C, binds to membranes and forms pores, leading to the induction of pyroptosis. The pore-forming activity involves the homooligomerization of GSDMC within the membrane, resulting in the formation of pores with inner diameters ranging from 10 to 15 nanometers. This process is initiated by the cleavage of gasdermin-D by caspase CASP8 in response to death signals, and the subsequent movement of the cleaved protein to the plasma membrane, where it exhibits strong binding to the inner leaflet lipids, ultimately triggering pyroptosis.

Caution: Product has not been fully validated for medical applications. For research use only.

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