

FASLG Protein, Human (His)

Cat. No.:	HY-P700520
Synonyms:	Apoptosis antigen ligand ; APTLCD95 ligand ; CD95-LFas antigen ligand ; Fas ligand ; FasL; CD178
Species:	Human
Source:	E. coli
Accession:	P48023 (Q103-L281)
Gene ID:	356
Molecular Weight:	26 kDa

PROPERTIES

AA Sequence	<p> Q L F H L Q K E L A E L R E S T S Q M H T A S S L E K Q I G H P S P P P E K K E L R K V A H L T G K S N S R S M P L E W E D T Y G I V L L S G V K Y K K G G L V I N E T G L Y F V Y S K V Y F R G Q S C N N L P L S H K V Y M R N S K Y P Q D L V M M E G K M M S Y C T T G Q M W A R S S Y L G A V F N L T S A D H L Y V N V S E L S L V N F E E S Q T F F G L Y K L </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
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	<p>FASLG protein, a cytokine, specifically binds to TNFRSF6/FAS, serving as a crucial mediator of apoptotic signals within cells. It plays integral roles in various cellular processes, including cytotoxic T-cell-mediated apoptosis, natural killer cell-mediated apoptosis, and T-cell development. FASLG is actively involved in initiating fratricidal/suicidal activation-induced cell death (AICD) in antigen-activated T-cells, contributing to the controlled termination of immune responses. Additionally, TNFRSF6/FAS-mediated apoptosis, facilitated by FASLG, plays a role in the induction of peripheral tolerance. Notably, FASLG binds to TNFRSF6B/DcR3, a decoy receptor that functions to block apoptosis. Furthermore, FASLG has the capacity to induce FAS-mediated activation of NF-kappa-B, initiating non-apoptotic signaling pathways, and, while it can induce apoptosis, its essentiality for this process remains to be confirmed.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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