

Fas/CD95 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702277
Synonyms:	Tumor necrosis factor receptor superfamily member 6; Apo-1 antigen; Apoptosis-mediating surface antigen FAS; FASLG receptor; CD antigen CD95
Species:	Human
Source:	E. coli Cell-free
Accession:	P25445 (Q26-V335)
Gene ID:	355
Molecular Weight:	40.6 kDa

PROPERTIES

AA Sequence	<pre> Q V T D I N S K G L E L R K T V T T V E T Q N L E G L H H D G Q F C H K P C P P G E R K A R D C T V N G D E P D C V P C Q E G K E Y T D K A H F S S K C R R C R L C D E G H G L E V E I N C T R T Q N T K C R C K P N F F C N S T V C E H C D P C T K C E H G I I K E C T L T S N T K C K E E G S R S N L G W L C L L L L P I P L I V W V K R K E V Q K T C R K H R K E N Q G S H E S P T L N P E T V A I N L S D V D L S K Y I T T I A G V M T L S Q V K G F V R K N G V N E A K I D E I K N D N V Q D T A E Q K V Q L L R N W H Q L H G K K E A Y D T L I K D L K K A N L C T L A E K I Q T I I L K D I T S D S E N S N F R N E I Q S L V </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 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. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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	Fas, also known as CD95, serves as a receptor for TNFSF6/FASLG, initiating a cascade of apoptotic events crucial for programmed cell death. The adapter molecule FADD facilitates the recruitment of caspase-8 to the activated receptor, forming the death-inducing signaling complex (DISC) and initiating the cascade of caspases that mediate apoptosis. FAS-
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mediated apoptosis is implicated in peripheral tolerance induction and the antigen-stimulated suicide of mature T-cells. Additionally, secreted isoforms 2 to 6 of Fas have been identified, which function to block apoptosis in vitro. Fas engages in diverse protein interactions, including DAXX, HIPK3, RIPK1, FAIM2, BABAM2, FEM1B, FADD, NOL3, and CALM, forming a complex network that regulates cell death signaling. The interaction with various molecules highlights the multifaceted roles of Fas in cellular processes, emphasizing its significance in immune regulation and apoptosis modulation.

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

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