

FGL1 Protein, Human (HEK293, His, solution)

Cat. No.:	HY-P70737
Synonyms:	Fibrinogen-like protein 1; FGL1; HP-041; Hepassocin; HFREP-1; LFIRE-1
Species:	Human
Source:	HEK293
Accession:	Q08830 (L23-I312)
Gene ID:	2267
Molecular Weight:	Approximately 35.0 kDa

PROPERTIES

AA Sequence	<pre> L E D C A Q E Q M R L R A Q V R L L E T R V K Q Q Q V K I K Q L L Q E N E V Q F L D K G D E N T V I D L G S K R Q Y A D C S E I F N D G Y K L S G F Y K I K P L Q S P A E F S V Y C D M S D G G G W T V I Q R R S D G S E N F N R G W K D Y E N G F G N F V Q K H G E Y W L G N K N L H F L T T Q E D Y T L K I D L A D F E K N S R Y A Q Y K N F K V G D E K N F Y E L N I G E Y S G T A G D S L A G N F H P E V Q W W A S H Q R M K F S T W D R D H D N Y E G N C A E E D Q S G W W F N R C H S A N L N G V Y Y S G P Y T A K T D N G I V W Y T W H G W W Y S L K S V V M K I R P N D F I P N V I </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-Hcl, 300 mM NaCl, 10% Glycerol, 2 mM EDTA, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>FGL1 protein functions as an immune suppressive molecule, exerting inhibitory effects on antigen-specific T-cell activation by serving as a major ligand for LAG3. It plays a pivotal role in mediating LAG3's T-cell inhibitory function independently of MHC class II (MHC-II) binding. Beyond its immune-regulatory role, FGL1 is secreted by hepatocytes, contributing to their growth. Existing as a homodimer, FGL1 interacts with LAG3 through its Fibrinogen C-terminal domain, specifically binding to LAG3's Ig-like domains 1 and 2. This molecular interaction, detailed in studies, underscores the significance of FGL1 in</p>
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modulating immune responses and hepatocyte growth, highlighting its potential as a key player in the regulation of T-cell activation and hepatic functions.

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

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