FGL1 protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78443
Synonyms:	FGL1; FGL-1; Hepassocin; HP-041; HFREP-1; LFIRE-1; HFREP1; Lag3 ligand
Species:	Human
Source:	HEK293
Accession:	Q08830 (D64-N305)
Gene ID:	2267
Molecular Weight:	Approximately 31.9 kDa

PROPERTIES

Biological Activity	Immobilized Human FGL1, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human LAG3, hFc Tag with the EC_{50} of 0.16μg/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	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 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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA