

FGL2 Protein, Human, Recombinant (His & Avi, Flag), Biotinylated

General Information

Synonyms:	FGL2;pT49;Fibroleukin;fibrinogen-like 2
Protein Construction:	Val205-Pro439
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q14314
Molecular Weight:	31.2 kDa (predicted). Due to glycosylation, the protein migrates to 40-55 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Biotinylated Human FGL2, His Tag at 2µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-FGL2 Antibody, hFc Tag with the EC50 of 3.9ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Fibrinogen-like protein 2 (FGL2) is a member of the fibrinogen-like protein family and possesses important regulatory functions in both innate and adaptive immune responses. FGL2 is overexpressed in glioma, and its expression level is negatively associated with the prognosis of glioma patients.

Reference

Feng Y, et al. Fibrinogen-Like Protein 2 (FGL2) is a Novel Biomarker for Clinical Prediction of Human Breast Cancer. Med Sci Monit. 2020 Jul 27;26:e92353doi: 10.12659/MSM.92353PMID: 32716910; PMCID: PMC7409386.

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