

FGA recombinant protein

Recombinant Rat FGA protein (His tag)

CATALOG #
AAA179819

HOST
E coli

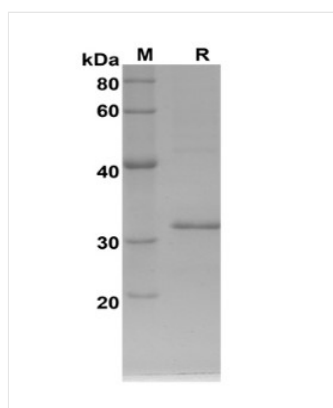
PRODUCT SYNONYMS

FGA; Recombinant Rat FGA protein (His tag); A alpha polypeptide; FPA; Fib2; Fibrinogen A; Fibrinogen Type I; Fibrinogen alpha chain; fibrinogen; FGA recombinant protein

PRODUCT SPECIFICATIONS

Host	E coli
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	This product is provided as a lyophilized powder, lyophilized from a 0.2 um filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Sequence	Gly37-Met258
Species	Rat
Source	E.coli-derived Rat FGA protein Gly 37-Met258, with an N-terminal His
Endotoxin	<10EU/mg of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.

IMAGES



SDS-PAGE

SDS-PAGE analysis of Rat FGA proteins, 2ug/lane of Recombinant Rat FGA proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 32 KD.

ADDITIONAL INFORMATION

Related Product Information for FGA recombinant protein	Fibrinogen is a 340 kDa, secreted glycoprotein complex that is found in blood at concentrations of 150-400 mg/dL. It is secreted primarily by hepatocytes, but is also reported to be expressed by fibroblasts, type I alveolar epithelium, intestinal epithelium and some tumor cells. Fibrinogen is a homodimer that is composed of two, three-polypeptide chain subunits. Fibrinogen plays a central role in clot formation. Conversion of fibrinogen to fibrin is triggered by thrombin, which cleaves fibrinopeptides A and B from alpha and beta chains, and thus exposes the N-terminal polymerization sites responsible for the formation of the soft clot. The soft clot is converted into the hard clot by factor XIIIa which catalyzes the epsilon-(gamma-glutamyl)lysine cross-linking between gamma chains (stronger) and between alpha chains (weaker) of different monomers. Fibrinogen is also a component of the ECM and binds to cell surface molecules on inflammatory cells.
Product Categories/Family for FGA recombinant protein	Proteins; Recombinant Proteins; Others; Cardiovascular; Immunology; Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	1706800
NCBI GeneID	361969
UniProt Accession #	P06399; P14480; P02680
Molecular Weight	24.3 kDa
NCBI Official Full Name	Fibrinogen alpha chain
NCBI Official Synonym Full Names	fibrinogen alpha chain
NCBI Official Symbol	Fga
NCBI Official Synonym Symbols	Fba5e; Ac1873
NCBI Protein Information	fibrinogen alpha chain; fibrinogen, alpha polypeptide; fibrinogen, A alpha polypeptide
UniProt Protein Name	Fibrinogen alpha chain
UniProt Gene Name	Fga
UniProt Entry Name	FIBA_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.