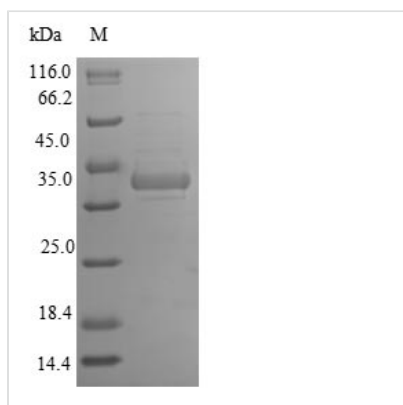




Recombinant Rat FAD-linked sulfhydryl oxidase ALR (Gfer)

Product Code	CSB-EP733907RA
Relevance	FAD-dependent sulfhydryl oxidase that regenerates the redox-active disulfide bonds in CHCHD4/MIA40, a chaperone essential for disulfide bond formation and protein folding in the mitochondrial intermembrane space. The reduced form of CHCHD4/MIA40 forms a transient intermolecular disulfide bridge with GFER/ERV1, resulting in regeneration of the essential disulfide bonds in CHCHD4/MIA40, while GFER/ERV1 becomes re-oxidized by donating electrons to cytochrome c or molecular oxygen. May have a function in liver regeneration and spermatogenesis
Abbreviation	Recombinant Rat Gfer protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q63042
Alias	Augmenter of liver regeneration
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAAPSEPAGFPRGSRFSFLPGGAHSEMTDDLVTDAARGRGARHRKDNAPAAA PAPKGLEHGKRPCRACVDFKSWMRTQQKRDIFREDCPQDREELGRNTWAF LHTLAAYYPDMPTPEQQQDMAQFIHIFSKFYPCEECAEDIRKRIDRSQPDTSTR VSFSQWLCRLHNEVNRKLGKPDFDCSRVDERWRDGGWKDGSCD
Research Area	Signal Transduction
Source	E.coli
Target Names	Gfer
Protein Names	Recommended name: FAD-linked sulfhydryl oxidase ALR EC= 1.8.3.2 Alternative name(s): Augmenter of liver regeneration
Expression Region	1-198aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	38.8kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Introducing our Recombinant Rat FAD-linked sulfhydryl oxidase ALR, a product that is pivotal to the field of Signal Transduction research. Also known as Augmenter of Liver Regeneration, this protein is crucial for cell growth and liver regeneration. It is encoded by the 'Gfer' (also known as Alr) gene in the Rat species and plays a fundamental role in many intracellular processes such as cellular antioxidant defense systems.

This protein, produced in E.coli, is full length, spanning from amino acid 1 to 198. It comes with an N-terminal 6xHis-SUMO tag, facilitating easy detection and purification. You can rest assured of its quality, as we verify its purity to be greater than 90% as determined by SDS-PAGE. You have the flexibility to choose whether you would prefer it in liquid form or as lyophilized powder. With our Recombinant Rat Gfer, you can expect precise results in your research.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.