

GFER Protein, Rat, Recombinant (His & SUMO)

General Information

Synonyms:	Augmenter of liver regeneration;Alr;FAD-linked sulfhydryl oxidase ALR;Gfer
Protein Construction:	1-198 aa
Species:	Rat
Expression Host:	E. coli
Accession:	Q63042
Molecular Weight:	38.8 kDa (predicted)
AA Sequence:	MAAPSEPAGFPRGSRFSFLPGGAHSEMTDDLVTDARGRGARHRKDNAPAAAPAPKGLEHGKRPCRACVDF KSWMRTQQKRDIKFREDCPQDREELGRNTWAFLHTLAAYYPDMPTPEQQQDMAQFIHIFSKFYPCEECAEDI RKRIDRSQPDSTRVSFSQWLCRLHNEVNRKLGKPDFDCSRVDERWRDGGWKGSGCD

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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