

Catalog No.: RP02175 **Recombinant**

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 2671 | P55789 |

N-His

GFER;ALR;ERV1;HERV1;HPO;HPO1;HPO2;
HSS

| | |
|---------------------------------|--|
| Source <i>E. coli</i> | Purification ≥ 90 % as determined by SDS- PAGE |
|---------------------------------|--|

| Calculated MW | Observed MW |
|---------------|-------------|
| 17.3 kDa | 15 kDa |

< 1 EU/μg of the protein by LAL method.

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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GFER is a hepatotropic growth factor and flavin-linked sulphhydryl oxidase which belongs to the Erv1/ALR family of proteins. GFER is widely expressed in various human tissues. They are two isoforms of this protein. Isoform 1 could regenerate 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. Isoform 2 may act as an autocrine hepatotropic growth factor promoting liver regeneration. GFER could also induce the expression of S-adenosylmethionine decarboxylase and ornithine decarboxylases (ODC). S-adenosylmethionine decarboxylase and ornithine decarboxylases play an important role in the synthesis of polyamines.

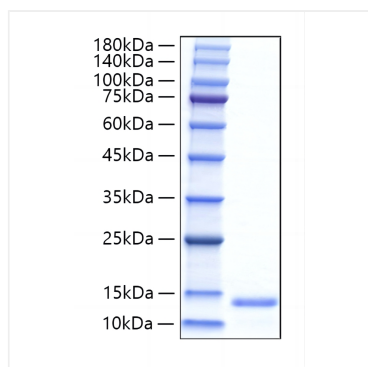
Recombinant Human GFER/ALR Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Asp125) of human GFER (Accession #P55789) fused with a 6xHis tag at the N-terminus.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human GFER/ALR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.