

Recombinant Human GFER/ALR Protein

Catalog No.: RP02175 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2671 P55789

Tags

N-His

Synonyms

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

Product Information

Source Purification E. coli $\geq 90 \% as$

determined by SDS-PAGE.

Calculated MW Observed MW

17.3 kDa 15 kDa

Endotoxin

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

Formulation

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

Reconstitution

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

GFER is a hepatotrophic growth factor and flavin-linked sulfhydryl 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 redoxactive 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 hepatotrophic growth factor promoting liver regeneration. GFER could also induce the expression of S- adenosylmethionine decarboxyl-ase and ornithine decarboxylases (ODC). S- adenosylmethionine decarboxyl-ase and ornithine decarboxylases play an important role in the synthesis of polyamines.

Basic Information

Description

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.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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

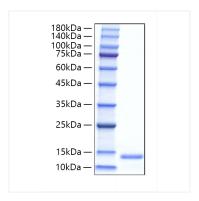
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



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