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## 32-7599: Recombinant Human FAD-linked Sulfhydryl Oxidase ALR/GFER (N-6His)

**Gene ID :** 2671 **Uniprot ID :** P55789

## **Description**

Source: E.coli. MW :17.3kD.

Recombinant Human GFER is produced by our E.coli expression system and the target gene encoding Met1-Asp125 is expressed with a 6His tag at the N-terminus. 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 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 hepatotrophic growth factor promoting liver regeneration. GFER could also induce the expression of S-adenosylmethionine decarboxyl-ase and ornithine decarboxylases play an important role in the synthesis of polyamines.

## **Product Info**

**Amount:** 10 μg / 50 μg

**Content:** Lyophilized from a 0.2 µm filtered solution of PBS,pH7.4.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.

Storage condition:

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Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted

samples are stable at -20°C for 3 months.

Amino Acid: MGSSHHHHHHSSGLVPRGSHMMRTQQKRDTKFREDCPPDREELGRHSWAVLHTLAAYYPDLPTPEQQQDM

AOFIHLFSKFYPCEECAEDLRKRLCRNHPDTRTRACFTOWLCHLHNEVNRKLGKPDFDCSKVDERWRDGWKD

**GSCD** 

## **Application Note**

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100  $\tilde{A} \Box \hat{A} \mu g/ml$ . Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than  $0.1 \text{ ng}/\tilde{A} \square \hat{A} \mu g$  (1 IEU/ $\tilde{A} \square \hat{A} \mu g$ ) as determined by LAL test.