# Product Data Sheet

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| Product Name: | GFER Human |
| Cat. No.: | GP23546 |
| Batch No.: | 1 |

## Product Data

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| Purity | >98% | Source | Escherichia Coli. |
| Phycical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | FAD-linked sulfhydryl oxidase ALR; Augmenter of liver regeneration; Hepatopoietin; GFER; ALR; HERV1; HPO; ALR; HSS; ERV1; HPO1; HPO2. | | |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MGSHMAAPGE RGRFHGGNLF FLPGGARSEM MDDLATDARG RGAGRRDAAA SASTPAQAPT SDSPVAEDAS RRRPCRACVD FKTWMRTQQK RDTKFREDCP PDREELGRHS WAVLHTLAAY YPDLPTPEQQ QDMAQFIHLF SKFYPCEECA EDLRKRLCRN HPDTRTRACF TQWLCHLHNE VNRKLGKPDF DCSKVDERWR DGWKDGSCD. | | |
| Formulation | GFER protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 50% glycerol and 2mM DTT. | | |

## Introduction

FAD-linked sulfhydryl oxidase ALR (GFER) is a member of the Erv1/ALR family of proteins, which is found in higher and lower eukaryotes. GFER is a hepatotrophic growth factor and flavin-linked sulfhydryl oxidase expressed in a variety of tissues. Moreover, GFER induces the expression of S-adenosylmethionine decarboxyl-ase and ornithine decarboxylases (ODC), which each have a central role in the synthesis of polyamines. The hepatotrophic factor designated augmenter of liver regeneration (ALR) is assumed to be one of the factors responsible for the exceptional regenerative capacity of mammalian liver. The GFER gene is located on chromosome 16 in the interval containing the locus for polycystic kidney disease (PKD1).

## Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.


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## Background

GFER Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 229 amino acids (1-205 a.a) and having a molecular mass of 26kDa.GFER is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.


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