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Datasheet for ABIN7318458 GFER Protein (His tag)

Overview

Quantity:	50 µg
Target:	GFER
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GFER protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GFER Protein (His Tag)
Sequence:	Met 1-Asp125
Characteristics:	Recombinant Human Growth Factor, Augmenter of Liver Regeneration 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.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	GFER
Alternative Name:	GFER (GFER Products)
Background:	Background: GFER is a hepatotropic growth factor and flavin-linked sulfhydryl oxidase which belongs to the Erv1/ALR family of proteins. GFER is widely expressed in various human tissues.

Target Details

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 (ODC). S-adenosylmethionine decarboxyl-ase and ornithine decarboxylases play an important role in the synthesis of polyamines.

Synonym: FAD-linked sulfhydryl oxidase ALR,GFER,Augmenter of liver regeneration,hERV1,Hepatopoietin,GFER,ALR,HERV1,HPO

Molecular Weight:	17.3 kDa
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UniProt:	P55789
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Pathways:	SARS-CoV-2 Protein Interactome
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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