

## Erythroferrone Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Complement C1q tumor necrosis factor-related protein 15; Myonectin; Erythroferrone; Ctrp15; C1qtnf15; Erfe; Fam132b
Protein Construction:	25-340 aa
Species:	Mouse
Expression Host:	P. pastoris (Yeast)
Accession:	Q6PGN1
Molecular Weight:	35.9 kDa (predicted)
AA Sequence:	LGVPESAEPVGT HARPPGAELPAPPANSPPEPTIAHAHSVDPDRAWMLFVKQSDKGINSKRRSKARRLKL GLPGPPGPPGPPGPPGPFIPSEVLLKEFQLLLKGAVRQRESHLEHCTRDLTTPASGSPSRVPAQELDSQDPG ALLALLAATLAQGPRAPRVEAAFHCRLRRDVQVDRRALHELGIYYLPEVEGAFHRGPGLNLTSGQYTAPVAGF YALAATLHVALTEQPRKGPTRPRDRLRLLCIQSLCQHNASLETVMGLENSSELTISVNGVLYLQAGHYTSVFL DNASGSSLTVRSGSHFSAILLGL

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Iron-regulatory hormone that acts as an erythroid regulator after hemorrhage: produced by erythroblasts following blood loss and mediates suppression of hepcidin (HAMP) expression in the liver, thereby promoting

increased iron absorption and mobilization from stores. Promotes lipid uptake into adipocytes and hepatocytes via transcriptional up-regulation of genes involved in fatty acid uptake.

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