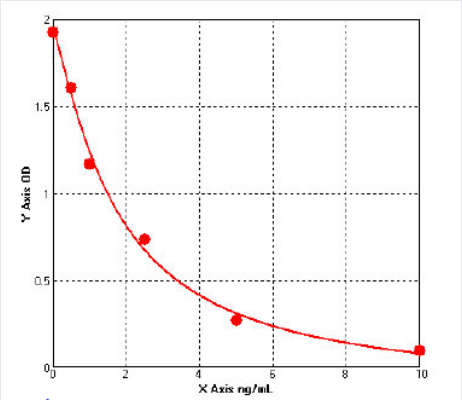
Erythroferrone (ERFE) ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	Erythroferrone (ERFE), ELISA Kit
Full Product Name	Monkey Erythroferrone ELISA Kit
Product Gene Name	ERFE elisa kit
Species Reactivity	Monkey
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of ERFE. No significant cross-reactivity or interference between ERFE and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ERFE and all the analogues, therefore, cross reaction may still exist in some cases.
Preparation and Storage	Store at 2-8 degree C. The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.
Molecular Weight	37,279 Da
3D Structure	ModBase 3D Structure for Q4G0M1
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for ERFE elisa kit	Intended Uses: This ERFE ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Monkey ERFE. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: ERFE ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-ERFE antibody and an ERFE-HRP conjugate. The assay sample and buffer are incubated together with ERFE-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ERFE concentration since ERFE from samples and ERFE-HRP conjugate compete for the anti-ERFE antibody binding site. Since the number of sites is limited, as more sites are occupied by ERFE from the sample, fewer sites are left to bind ERFE-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ERFE concentration in each sample is interpolated from this standard curve.
Other Notes	Small volumes of ERFE elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ERFE purchase	MBS7262751 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Erythroferrone (ERFE) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ERFE. The ELISA analytical biochemical technique of the MBS7262751 kit is based on ERFE antibody-ERFE antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ERFE antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ERFE. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ERFE elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERFE. It may not necessarily be applicable to this product.

NCBI GI #	628601881
NCBI GeneID	151176
NCBI Accession #	NP_001278761.1
UniProt Primary Accession #	Q4G0M1
UniProt Secondary Accession #	W8S2M9
UniProt Related Accession #	Q4G0M1
GenBank Nucleotide #	NM_001291832.2
NCBI Official Full Name	erythroferrone
NCBI Official Synonym Full Names	erythroferrone
NCBI Official Symbol	ERFE
NCBI Official Synonym Symbols	CTRP15; FAM132B; C1QTNF15
UniProt Protein Name	Erythroferrone
UniProt Synonym Protein Names	Complement C1q tumor necrosis factor-related protein 15; Myonectin
Protein Family	Erythroferrone
UniProt Gene Name	ERFE
UniProt Synonym Gene Names	C1QTNF15; CTRP15; FAM132B
NCBI Protein Information	erythroferrone
UniProt Comments for ERFE	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.

Research Articles on ERFE	**1.** From a clinical point of view, erythroferrone could become a useful biological marker of iron metabolism and a therapeutic target. [review]
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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