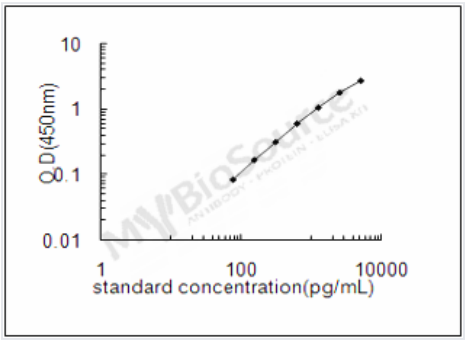
Hephaestin (HEPH) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Hephaestin, ELISA Kit
Full Product Name	Mouse Hephaestin ELISA Kit
Product Gene Name	Heph elisa kit
Product Synonym Names	Hephaestin; Heph; Kiaa0698
Species Reactivity	Mouse
Assay Type	Sandwich
Detection Range	78-5000 pg/mL
Sensitivity	39.7 pg/mL
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	129,595 Da
3D Structure	ModBase 3D Structure for Q9Z0Z4
Intra-Assay CV	<=8.4%
Inter-Assay CV	<=10.2%
Recovery	103%
Related Product Information for Heph elisa kit	MBS2880549 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Hephaestin, 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 Heph. The ELISA analytical biochemical technique of the MBS2880549 kit is based on Heph antibody-Heph antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Heph antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Heph. 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(%).
Other Notes	Small volumes of Heph 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.



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

ADDITIONAL DETAILS

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

NCBI GI #	227499251
NCBI GeneID	15203
NCBI Accession #	NP_001153099.1
UniProt Primary Accession #	Q9Z0Z4
UniProt Secondary Accession #	Q6ZQ65; Q80Y80; Q8C4S2; A2AI63
UniProt Related Accession #	Q9Z0Z4
GenBank Nucleotide #	NM_001159627.1
NCBI Official Full Name	hephaestin isoform 1
NCBI Official Synonym Full Names	hephaestin
NCBI Official Symbol	Heph
NCBI Official Synonym Symbols	Cpl; sla; mKIAA0698; C130006F04Rik
UniProt Protein Name	Hephaestin
Protein Family	Hephaestin
UniProt Gene Name	Heph
UniProt Synonym Gene Names	Kiaa0698
UniProt Entry Name	HEPH_MOUSE
NCBI Protein Information	hephaestin
UniProt Comments for Heph	HEPH: May function as a ferroxidase for ferrous (II) to ferric ion (III) conversion and may be involved in copper transport and homeostasis. Implicated in iron homeostasis and may mediate iron efflux associated to ferroportin 1. Belongs to the multicopper oxidase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 1.-.-.-; Oxidoreductase Cellular Component: basolateral plasma membrane; integral to membrane; intracellular; membrane; perinuclear region of cytoplasm; plasma membrane Molecular Function: copper ion binding; F420H2 dehydrogenase activity; ferrous iron binding; ferroxidase activity; malolactic enzyme activity; metal ion binding; N-ethylmaleimide reductase activity; oxidoreductase activity; sulfur oxygenase reductase activity Biological Process: cellular iron ion homeostasis; copper ion transport; erythrocyte differentiation; ion transport; iron ion homeostasis; iron ion transport; transport
Research Articles on Heph	**1.** The multicopper ferroxidase hephaestin enhances intestinal iron absorption in mice.
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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