

ARG81772 Human Heme Oxygenase 1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81772-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81772-002	Standard	2 X 10 ng/vial	4°C
ARG81772-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81772-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81772-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81772-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81772-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81772-008	25X Wash buffer	20 ml	4°C
ARG81772-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81772-010	STOP solution	10 ml (Ready to use)	4°C
ARG81772-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81772 Human Heme Oxygenase 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Heme Oxygenase 1 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Heme Oxygenase 1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	46.85 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	93.7 - 6000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.9%; Inter-Assay CV: 7.2%
Alternate Names	bK286B10; Heme oxygenase 1; HO-1; EC 1.14.99.3; HMOX1D; HSP32

Application Instructions

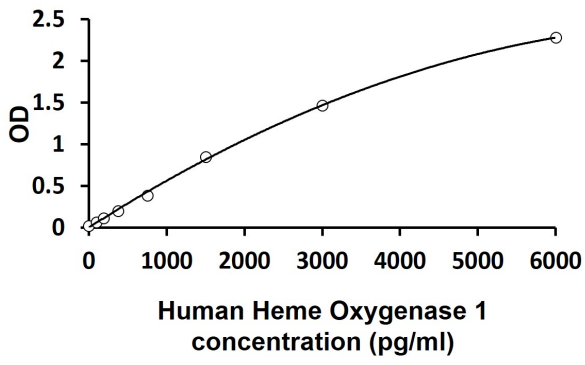
Assay Time	~ 5 hours
------------	-----------

Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	HMOX1
Gene Full Name	heme oxygenase 1
Background	Heme oxygenase, an essential enzyme in heme catabolism, cleaves heme to form biliverdin, which is subsequently converted to bilirubin by biliverdin reductase, and carbon monoxide, a putative neurotransmitter. Heme oxygenase activity is induced by its substrate heme and by various nonheme substances. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 and a constitutive heme oxygenase-2. HMOX1 and HMOX2 belong to the heme oxygenase family. [provided by RefSeq, Jul 2008]
Function	Heme oxygenase cleaves the heme ring at the alpha methene bridge to form biliverdin. Biliverdin is subsequently converted to bilirubin by biliverdin reductase. Under physiological conditions, the activity of heme oxygenase is highest in the spleen, where senescent erythrocytes are sequestered and destroyed. Exhibits cytoprotective effects since excess of free heme sensitizes cells to undergo apoptosis. [UniProt]
Highlight	<p>Related products: Heme Oxygenase 1 antibodies; Heme Oxygenase 1 ELISA Kits; Heme Oxygenase 1 Duos / Panels;</p> <p>Related news: Keap1-Nrf2-ARE antibody panel is launched</p> <p>New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>



ARG81772 Human Heme Oxygenase 1 ELISA Kit standard curve image

ARG81772 Human Heme Oxygenase 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.