

## ARG82709 Human CES1 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82709-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82709-002	Standard	2 X 50 ng/vial	4°C
ARG82709-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82709-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82709-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82709-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82709-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82709-008	25X Wash buffer	20 ml	4°C
ARG82709-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82709-010	STOP solution	10 ml (Ready to use)	4°C
ARG82709-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82709 Human CES1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CES1 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	CES1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.39 ng/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	0.78 - 50 ng/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.6% Inter-Assay CV: 6.3%

Alternate Names	SES1; Cocaine carboxylesterase; REH; ACAT; Serine esterase 1; HMSE; Retinyl ester hydrolase; Methylumbelliferyl-acetate deacetylase 1; hCE-1; EC 3.1.1.56; CE-1; CEH; HMSE1; TGH; PCE-1; Acyl-coenzyme A:cholesterol acyltransferase; EC 3.1.1.1; Liver carboxylesterase 1; Brain carboxylesterase hBr1; Triacylglycerol hydrolase; CES2; Egasyn; Carboxylesterase 1; Monocyte/macrophage serine esterase
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## Application Instructions

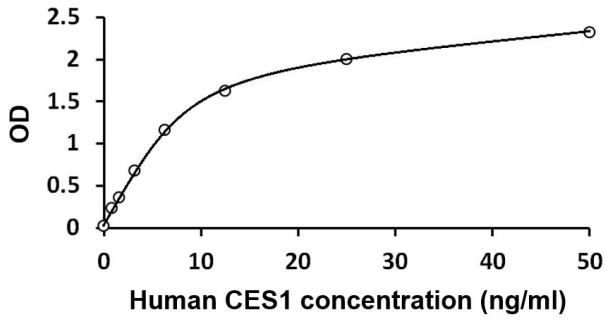
Assay Time	~ 5 hours
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## Properties

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	CES1
Gene Full Name	carboxylesterase 1
Background	This gene encodes a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobiotics, such as cocaine and heroin, and endogenous substrates with ester, thioester, or amide bonds. They may participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. This enzyme is the major liver enzyme and functions in liver drug clearance. Mutations of this gene cause carboxylesterase 1 deficiency. Three transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]
Function	Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Hydrolyzes aromatic and aliphatic esters, but has no catalytic activity toward amides or a fatty acyl-CoA ester. Hydrolyzes the methyl ester group of cocaine to form benzoylecgonine. Catalyzes the transesterification of cocaine to form cocaethylene. Displays fatty acid ethyl ester synthase activity, catalyzing the ethyl esterification of oleic acid to ethyloleate. [UniProt]
Highlight	Related products: <a href="#">CES antibodies</a> ; <a href="#">CES ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
PTM	Contains sialic acid.  Cleavage of the signal sequence can occur at 2 positions, either between Trp-17 and Gly-18 or between Gly-18 and His-19. [UniProt]
Cellular Localization	Endoplasmic reticulum lumen. [UniProt]



ARG82709 Human CES1 ELISA Kit standard curve image

ARG82709 Human CES1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.