

## ARG82710 Human CES2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82710-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82710-002	Standard	2 X 10 ng/vial	4°C
ARG82710-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82710-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82710-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82710-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82710-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82710-008	25X Wash buffer	20 ml	4°C
ARG82710-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82710-010	STOP solution	10 ml (Ready to use)	4°C
ARG82710-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82710 Human CES2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CES2 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	CES2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.7% Inter-Assay CV: 6.4%

**Alternate Names** hCE-2; Methylumbelliferyl-acetate deacetylase 2; EC 3.1.1.84; Carboxylesterase 2; Cocaine esterase; CE-2; iCE; EC 3.1.1.56; CES2A1; PCE-2; EC 3.1.1.1

## Application Instructions

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**Assay Time** ~ 5 hours

## Properties

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**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

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**Gene Symbol** CES2

**Gene Full Name** carboxylesterase 2

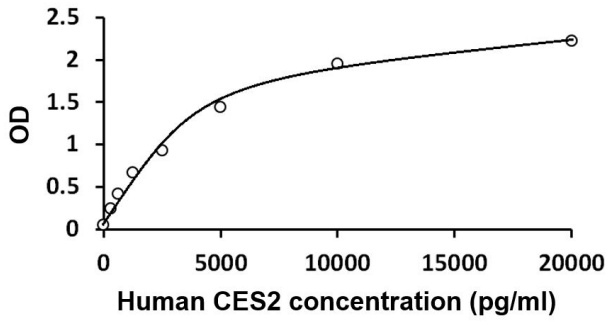
**Background** This gene encodes a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobiotics, such as cocaine and heroin, and endogenous substrates with ester, thioester, or amide bonds. They may participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. The protein encoded by this gene is the major intestinal enzyme and functions in intestine drug clearance. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2010]

**Function** Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Shows high catalytic efficiency for hydrolysis of cocaine, 4-methylumbelliferyl acetate, heroin and 6-monoacetylmorphine. [UniProt]

**Highlight** Related products:  
[CES antibodies](#); [CES ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

**PTM** Glycosylated. [UniProt]

**Cellular Localization** Endoplasmic reticulum lumen. [UniProt]



ARG82710 Human CES2 ELISA Kit standard curve image

ARG82710 Human CES2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.