

## ARG82855 Rat CES3 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82855-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82855-002	Standard	2 X 10 ng/vial	4°C
ARG82855-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82855-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82855-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82855-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82855-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82855-008	25X Wash buffer	20 ml	4°C
ARG82855-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82855-010	STOP solution	10 ml (Ready to use)	4°C
ARG82855-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82855 Rat CES3 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat CES3 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	CES3
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.8% Inter-Assay CV: 6.4%

## 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** CES3

**Gene Full Name** carboxylesterase 3

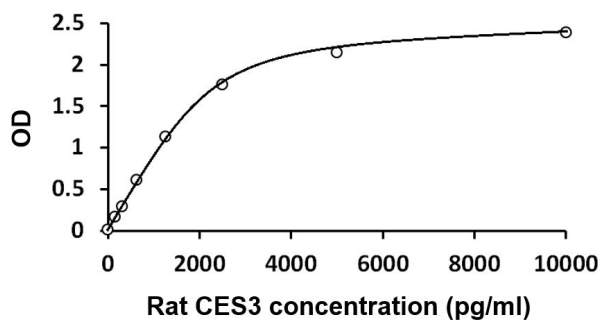
**Background** This gene encodes a member of the carboxylesterase large family. The family members are responsible for the hydrolysis or transesterification of various xenobiotics, such as cocaine and heroin, and endogenous substrates with ester, thioester, or amide bonds. They may participate in fatty acyl and cholesterol ester metabolism, and may play a role in the blood-brain barrier system. This gene is expressed in several tissues, particularly in colon, trachea and in brain, and the protein participates in colon and neural drug metabolism. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported, but the biological validity and/or full-length nature of some variants have not been determined. [provided by RefSeq, Jun 2010]

**Function** Involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. Shows low catalytic efficiency for hydrolysis of CPT-11 (7-ethyl-10-[4-(1-piperidino)-1-piperidino]-carbonyloxycamptothecin), a prodrug for camptothecin used in cancer therapeutics. [UniProt]

**PTM** N-glycosylated. [UniProt]

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

## Images



ARG82855 Rat CES3 ELISA Kit standard curve image

ARG82855 Rat CES3 ELISA Kit results of a typical standard run with optical density reading at 450 nm.