

Human CES1 ELISA Kit | CES1 elisa kit

Human CES1 PicoKine Quick ELISA Kit

CATALOG # AAA126848	REACTIVITY Human	APPLICATIONS ELISA
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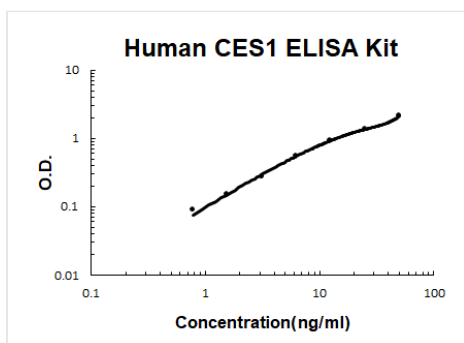
PRODUCT SYNONYMS

CES1; Human CES1 PicoKine Quick ELISA Kit; CES1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CES1
Assay Type	Sandwich
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	0.78 ng/ml - 50 ng/ml
Sensitivity	<0.1 ng/ml
Applicable Applications for CES1 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)

IMAGES



Standard Curve (Sample)

Human CES1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CES1 elisa kit	Background: Liver carboxylesterase 1 also known as carboxylesterase 1 (CES1, hCE-1 or CES1A1) is an enzyme that in humans is encoded by the CES1 gene. This gene is mapped to 16q12.2. It 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. Principle of the Assay: The Quick Picokine™ Human CES1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human CES1 in cell culture supernatants, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit includes Human CES1 protein as standards. To measure Human CES1, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Human CES1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CES1 in the sample.
Product Categories/Family for CES1 elisa kit	PicoKine ELISA Kits, Fast ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	119576
NCBI GeneID	1066
UniProt Accession #	P23141; P82127; Q00015; Q13657; Q14062; Q16737; Q16788; Q549X7; A6NIM1; A8K3K8; A8K844; E9PAU8
Molecular Weight	567
NCBI Official Full Name	Liver carboxylesterase 1
NCBI Official Synonym Full Names	carboxylesterase 1
NCBI Official Symbol	CES1
NCBI Official Synonym Symbols	CEH; REH; TGH; ACAT; CE-1; CES2; HMSE; SES1; HMSE1; PCE-1; hCE-1
NCBI Protein Information	liver carboxylesterase 1; egasyn; serine esterase 1; retinyl ester hydrolase; cocaine carboxylesterase; triacylglycerol hydrolase; carboxylesterase 2 (liver); brain carboxylesterase hBr1; cholesteryl ester hydrolase; monocyte/macrophage serine esterase; m
UniProt Protein Name	Liver carboxylesterase 1
UniProt Gene Name	CES1
UniProt Synonym Gene Names	CES2; SES1; ACAT; CE-1; hCE-1; REH; TGH
UniProt Entry Name	EST1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.