



## Human CES1 peptide (DAG-P1734)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	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]
<b>Specificity</b>	Expressed predominantly in liver with lower levels in heart and lung.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the type-B carboxylesterase/lipase family.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">CES1 carboxylesterase 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CES1
<b>Synonyms</b>	CES1; carboxylesterase 1; CEH; REH; TGH; ACAT; CE-1; CES2; HMSE; SES1; HMSE1; PCE-1; hCE-1; 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; methylumbelliferyl-acetate deacetylase 1; acyl coenzyme A:cholesterol acyltransferase; acyl-coenzyme A:cholesterol acyltransferase; human monocyte/macrophage serine esterase 1; carboxylesterase 1 (monocyte/macrophage serine esterase 1);

Entrez Gene ID	<a href="#">1066</a>
mRNA Refseq	<a href="#">NM_001025194.1</a>
Protein Refseq	<a href="#">NP_001020365.1</a>
UniProt ID	P23141
Chromosome Location	16q22.2
Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; E2F transcription factor network, organism-specific biosystem; Fluoropyrimidine Activity, organism-specific biosystem; Irinotecan Pathway, organism-specific biosystem; retinol biosynthesis, conserved biosystem; retinol biosynthesis, organism-specific biosystem;
Function	carboxylic ester hydrolase activity; methylumbelliferyl-acetate deacetylase activity;