

# Recombinant Human CES1

**Cat. No.** CES1-29351TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Liver Carboxylesterase 1 with N terminal proprietary tag; Predicted MWt 87.67 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	567 amino acids
<b>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.
<b>Molecular Weight</b>	87.670kDa inclusive of tags
<b>Tissue specificity</b>	Expressed predominantly in liver with lower levels in heart and lung.
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification

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<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	<p>MWLPALVLATLAASAAWGHPSPPVVDTVHGKVLGKFVSL EGFAQPVAIFLGIPFAK  PPLGPLRFTPPQPAEPWSFVKNA TSYPPMCTQDPKAGQLLSELFTRKENIPLKLS  EDCLYLN IYTPADLTKKNRLPVMVWIHGGGLMVGAASTYDGLALAAH ENVVVVTIQ  YRLGTWGGFFSTGDEHSRGNWGHLDQVAALRW VQDNIAFSGGNPGSVTIFGESAG  GESVSVLVLSPLAKNLF HRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSA V  MVHCLRQKTEEELETTLLKMKFLSLDLQGDPRESQPLLQ TVIDGMLLLKTPEELQAE  RNFHTVPYMGVINKQFEFGWLIP MLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELI  PEATE KYLGGTDDTVKKKDLFLDLIADVMFGVPSVIVARNHRDAG APTMYEFQYR  PSFSSDMKPKTVIGDHGDELFSVFGAPFL KEGASEEEIRLSKMVMKFWANFARNGN  PNGEGLPHWPEYN QKEGYLQIGANTQAAQKLKDKEVAFWTNLF AKKAVEKPPQ TE  HIEL</p>
<b>Sequence Similarities</b>	Belongs to the type-B carboxylesterase/lipase family.

## GENE INFORMATION

<b>Gene Name</b>	CES1 carboxylesterase 1 [ Homo sapiens ]
<b>Official Symbol</b>	CES1
<b>Synonyms</b>	CES1; carboxylesterase 1; carboxylesterase 1 (monocyte/macrophage serine esterase 1); liver carboxylesterase 1; CEH; CES1A1; CES1A2; CES2; HMSE; HMSE1; human monocyte/macrophage serine esterase 1; SES1;
<b>Gene ID</b>	1066

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<b>mRNA Refseq</b>	NM_001025194
<b>Protein Refseq</b>	NP_001020365
<b>Uniprot ID</b>	P23141
<b>Chromosome Location</b>	16q22.2
<b>Pathway</b>	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;
<b>Function</b>	carboxylesterase activity; hydrolase activity; methyl indole-3-acetate esterase activity; methyl jasmonate esterase activity; methyl salicylate esterase activity;

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