

Recombinant Human CES1

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

SPECIFICATION

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

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MWLPALVLATLAASAAWGHPSPPVVDTVHGKVLGKFVSL EGFAQPVAIFLGIPFAK PPLGPLRFTPPQPAEPWSFVKNA TSYPPMCTQDPKAGQLLSELFTRKENIPLKLS EDCLYLN IYTPADLTKKNRLPVMVWIHGGGLMVGAASTYDGLALAAH ENVVVVTIQ YRLGTWGGFFSTGDEHSRGNWGHLDQVAALRW VQDNIAFSGGNPGSVTIFGESAG GESVSVLVLSPLAKNLF HRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSA V MVHCLRQKTEEEELLETTLMKMFSLDLQGDPPRESQPLLQ TVIDGMLLLKTPEELQAE RNFHTVPYMGVINKQFEFGWLIP MLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELI PEATE KYLGGTDDTVKKKDLFLDLIADVMFGVPSVIVARNHRDAG APTMYEFQYR PSFSSDMKPKTVIGDHGDELFSVFGAPFL KEGASEEEIRLSKMVMKFWANFARNGN PNGEGLPHWPEYN QKEGYLQIGANTQAAQKLKDKEVAFWTNLFACKAVEKPPQ TE HIEL
Sequence Similarities	Belongs to the type-B carboxylesterase/lipase family.
GENE INFORMATION	
Gene Name	CES1 carboxylesterase 1 [Homo sapiens]
Official Symbol	CES1
Synonyms	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;
Gene ID	1066

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mRNA Refseq	NM_001025194
Protein Refseq	NP_001020365
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;
Function	carboxylesterase activity; hydrolase activity; methyl indole-3-acetate esterase activity; methyl jasmonate esterase activity; methyl salicylate esterase activity;

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