

Recombinant Human CES1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CES1-4193H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CES1 MS Standard C13 and N15-labeled recombinant protein (NP_001020365) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	62.3 kDa
AA Sequence	MWLPALVLATLAASAAWGHPSPPVVDTVHGKVLGKFVSLEGFAQPVAIFLGIPFAK PPLGPLRFTPPQPAEPWSFVKNATSYPPMCTQDPKAGQLLSELFTRNKENIPLKLSE DCLYLNIYTPADLTKKNRLPVMVWIHGGGLMVGAASTYDGLALAAHENVVVVTIQYR LGIWGGFFSTGDEHSRGNWGHLDQVAALRWVQDNIAFSGGNPGSVTIFGESAGGES VSVLVLSPLAKNLFHRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSAVMVH

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CLRQKTEEEELLETTLKMFLSLDLQGDPRSQPLLGTVIDGMLLLKTPEELQAERNF
HTVPYMGINKQEFGLIPMLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELIPEA
TEKYLGGTDDTVKKKDLFLDLIADVMFGVPSVIVARNHRDAGAPTYMYEFQYRPSFS
SDMKPKTVIGDHGDELFSVFGAPFLKEGASEEEIRLSKMVMKFWANFARNGNPNGE
GLPHWPEYNQKEGYLQIGANTQAAQKLKDKEVAFWTNLFAKKAVEKPPQTEHIELT
RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CES1 carboxylesterase 1 [Homo sapiens (human)]

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; 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

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A:cholesterol acyltransferase; REH; TGH; ACAT; PCE-1; MGC117365;

Gene ID 1066

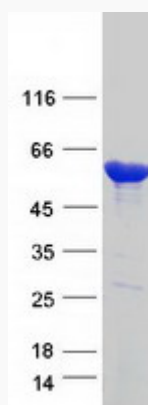
mRNA Refseq NM_001025194

Protein Refseq NP_001020365

MIM 114835

UniProt ID P23141

SDS-PAGE



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