

Recombinant Full Length Human CES1 Protein, GST-tagged

Cat. No. CES1-3262HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CES1 full-length ORF (AAH12418, 1 a.a. - 566 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
Protein Length	566 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. [provided by RefSeq, Jun 2010]
Molecular Mass	87.78 kDa
AA Sequence	MWLPALVLATLAASAAWGHPSPPVVDTVHGKVLGKFVSLEGFAQPVAIFLGIPFAK PPLGPLRFTPPQPAEPWSFVKNATSYPMMCTQDPKAGQLLSELFTRKNIPLKLSE DCLYLNIIYTPADLTKKNRLPVMVWIHGGGLMVGAASTYDGLALAAHENVVVVTIQYR LGTWGFFSTGDEHSRGNWGHLDQVAALRWVQDNIAFSGGNPGSVTIFGESAGGES VSVLVLSPLAKNLFHRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSAVMVH

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CLRQKTEEELETTLLKMKFLSLDLQGDPRESQPLLGTVIDGMLLLKTPEELQAERNF
 HTVPYMGVINKQEFGLWIPMLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELIPEA
 TEKYLGGTDDTVKKKDLFLDLIADVDFVGVPSVIVARNHRDAGAPTYMYEFQYRPSFS
 SDMKPKTVIGDHGDELFSVFGAPFLKEGASEEEIRLSKMVMKFWANFARNGNPNGE
 GLPHWPEYNQKEGYLQIGANTQAAQKLKDKEVAFWTNLFAKKAVEKPPQTEHIEL

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; 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; REH; TGH; ACAT; PCE-1; MGC117365;

Gene ID 1066

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mRNA Refseq	NM_001025194
Protein Refseq	NP_001020365
MIM	114835
UniProt ID	P23141

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