# Recombinant Human CES1 Protein, His-tagged

**Cat. No.** CES1-911H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human CES1(Gly18-Glu563), transcript variant 2, fused with His tag at N-terminal was expressed in HEK293 cells. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | 18-563 a.a. |
| **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 |
| **Form** | 20mM HAc-NaAc, 150mM NaCl, pH 4.0. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions. |
| **Molecular Mass** | 61 kDa |
| **Endotoxin** | < 0.1 EU per μg protein as determined by LAL test |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Purity** | >95% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration** | >50 ug/mL as determined by microplate BCA method |

## GENE INFORMATION

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| **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 |
| **mRNA Refseq** | NM_001025194 |
| **Protein Refseq** | NP_001020365 |
| **UniProt ID** | P23141 |

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