

Recombinant Full Length Human CES1 Protein

Cat. No. CES1-71HF **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	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	87.670kDa inclusive of tags
AA Sequence	MWLPALVLATLAASAAWGHPSPPVVDTVHGKVLGKFVSL EGFAQPVAIFLGIPFAK PPLGPLRFTPPQPAEPWSFVKNA TSYPPMCTQDPKAGQLLSELFTRKENIPLKLS EDCLYLN IYTPADLTCKNRLPVMVWIHGGGLMVGAASTYDGLALAAH ENVVVVTIQ

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YRLGTWGGFFSTGDEHSRGNWGHLDQVAALRW VQDNIAFSGGNPGSVTIFGESAG
 GESVSVLVLSPLAKNLF HRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSA V
 MVHCLRQKTEEELETTLKMFKLSLDLQGDPRESQPLLQ TVIDGMLLLKTPEELQAE
 RNFHTVPYMGINKQEFQWLIP MLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELI
 PEATE KYLGGTDDTVKKKDLFLDLIADVFMFGVPSVIVARNHRDAG APTYMYEFQYR
 PSFSSDMKPKTVIGDHGDELFSVFGAPFL KEGASEEEIRLSKMVMKFWANFARNGN
 PNGEGLPHWPEYN QKEGYLQIGANTQAAQKLKDKKEVAFWTNLFKAKAVEKPPQ TE
 HIEL

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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](#)

mRNA Refseq [NM_001025194](#)

Protein Refseq [NP_001020365](#)

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MIM	114835
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UniProt ID	P23141
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