

Active Recombinant Human CES1 Protein, His-tagged

Cat. No. CES1-748H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CES1 Protein is produced by Baculovirus expression system. This protein is fused with a His tag.
Species	Human
Source	Insect Cells
ProteinLength	19-568 aa
Description	Carboxylesterase 1, also known as liver carboxylesterase 1 isoform a, is a member of a large family of carboxylesterases. It is also part of the alpha/beta fold hydrolase family. Carboxylesterases hydrolyze long-chain fatty acid esters and thioesters. The resulting carboxylates are then often conjugated by other enzymes to increase solubility and eventually excreted. Also, this enzyme may play a role in detoxification in the lung and/or protection of the central nervous system from ester or amide compounds. This protein is known to react aromatic and aliphatic esters and can manage cellular cholesterol esterification levels. It is present in most tissues with higher levels in the liver and low levels in the gastrointestinal tract. Recombinant human Carboxylesterase 1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Form	Liquid. In 25 mM Sodium Acetate (pH 4.0) containing 10 % glycerol, 0.1 M NaCl, 0.1 mM PMSF.
Bio-activity	Specific activity is > 700 pmol/min/ug and is defined as the amount of enzyme that

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	hydrolyze 1pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH 7.5 at 37 centigrade.
Molecular Mass	61.7 kDa
AA Sequence	ADLGHPSSPP VVDTVHGKVL GKFVSLEGFA QPVAIFLGIP FAKPPLGPLR FTTPQPAEPW SFVKNATSYP PMCTQDPKAG QLLSELFTRN KENIPLKLSE DCLYLNITP ADLTKKNRLP VMVWIHGGGL MVGAASTYDG LALAAHENVV VVTIQYRLGI WGGFSTGDEH SRGNWGHLDQ VAALRWVQDN IASFGGNPGS VTIFGESAGG ESVSVLVLSP LAKNLFHRAI SESGVALTSV LVKKGDVKPL AEQIAITAGC KTTTSAVMVH CLRQKTEEL LETTLKMKFL SLDLQGDPRE SQPLLGTVID GMLLLKTPEE LQAERNFHTV PYMVGINKQE FGWLIPMQLM SYPLSEGQLD QKTAMSLWK SYPLVCIAKE LIPEATEKYL GGTDDTVKKK DLFLDLIADV MFGVPSVIVA RNHRDAGAPT YMYEFQYRPS FSSDMKPKTV IGDHGDELFS VFGAPFLKEG ASEEIIRLSK MVMKFWANFA RNGNPNGEGL PHWPEYNQKE GYLQIGANTQ AAQKLKDKEV AFWTNLFAKK AVEKPPQTEH IELHHHHHH
Endotoxin	< 1.0 EU per 1 ug of protein (determined by LAL method)
Purity	> 90 % by SDS - PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml (determined by Absorbance at 280 nm)

GENE INFORMATION

Gene Name	CES1 carboxylesterase 1 [Homo sapiens]
Official Symbol	CES1
Synonyms	Liver carboxylesterase 1 isoform a; CES1; ACAT; CE-1; CEH; CES2; hCE-1; HMSE; HMSE1; PCE-1; REH; SES1; TGH;
Gene ID	1066
mRNA Refseq	NM_001025194
Protein Refseq	NP_001020365
UniProt ID	P23141

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