

## Product datasheet for TP320398M

### Liver Carboxylesterase 1 (CES1) (NM\_001266) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human carboxylesterase 1 (monocyte/macrophage serine esterase 1) (CES1), transcript variant 3, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC220398 representing NM_001266 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MWLRAFILATLSASAAWGHPSPPWVDTVHGKVLGKFSLEGFAQPVAIFLGIPFAKPPLGRLRFTPPQP AEPWSFVKNATSYPPMCTQDPKAGQLLSEFTNRKENIPLKLESDCLYLNITPADLTKKNRLLPVMWVH GGGLMVGAASYDGLALAAHENVVVTIQYRLGIWGFSTGDEHSRGNWGHLDQVAALRWVQDNIAFGG NPGSVTIFGESAGGESVSVLVLSPLAKNLFHRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSA VMVHCLRQKTEEELLETTLKMFLSLDLQGDPRESQPLLGTVIDGMLLLKTPEELQAERNFHTVPYMVGI NKQEFGLIPMLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELIPEATEKYLGGTDDTVKKKDLFLDLI ADVMFGVPSVIVARNHRDAGAPTYMYEFQYRPSFSSDMKPKTVIGDHGDELFSVFGAPFLKEGASEEIR LSKMVMKFWANFARNGNPNGEGLPHWPEYNQKEGYLQIGANTQAAQKLKDKEVAFWTLNFAKKAKEKPPQ TEHIEL
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	60.4 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_001257](#)

**Locus ID:** 1066

**UniProt ID:** [P23141](#)

**RefSeq Size:** 2021

**Cytogenetics:** 16q12.2

**RefSeq ORF:** 1698

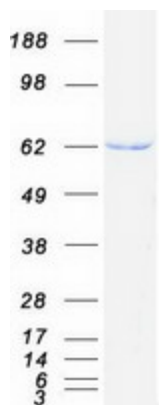
**Synonyms:** ACAT; CE-1; CEH; CES2; hCE-1; HMSE; HMSE1; PCE-1; REH; SES1; TGH

**Summary:** 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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Drug metabolism - other enzymes

### Product images:



Coomassie blue staining of purified CES1 protein (Cat# [TP320398]). The protein was produced from HEK293T cells transfected with CES1 cDNA clone (Cat# [RC220398]) using MegaTran 2.0 (Cat# [TT210002]).