

Product datasheet for **TP320445M**

Liver Carboxylesterase 1 (CES1) (NM_001025195) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carboxylesterase 1 (monocyte/macrophage serine esterase 1) (CES1), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC220445 representing NM_001025195
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MWLRAFILATLSASAAWAGHPSSPPVVDTVHGKVLGKFSLEGFAQPVAIFLGIPFAKPPLGPLRFTPPQ
 PAEPWSFVKNATSYPPMCTQDPKAGQLLELFTNRKENIPLKLEDCLYLNIYTPADLTKKNRLPVMVWI
 HGGGLMVGAASYDGLALAAHENVWVTIQYRLGIWGFSTGDEHSRGNWGHLDQVAALRWVQDNIAFG
 GNPGSVTIFGESAGGESVSVLVLSPLAKNLFHRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTS
 AVMVHCLRQKTEEELETTLMKFLSLDLQGDPRESQPLLGTVIDGMLLLKTPPELQAERNFHTVPYVMG
 INKQEFGWLIPMQLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELIPEATEKYLGGTDDTVKKKDLFLD
 LIADVMFGVPSVIVARNHRDAGAPTYMYEFQYRPSFSSDMKPKTVIGDHGDELFSVFGAPFLKEGASEEE
 IRLSKMVMKFWANFARNGNPNGEGLPHWPEYNQKEGYLQIGANTQAAQKLKDKVEAFWTNLFKAKAVEKP
 PQTEHIEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

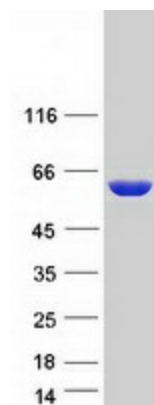
Tag:	C-Myc/DDK
Predicted MW:	60.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	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_001020366
Locus ID:	1066
UniProt ID:	P23141
RefSeq Size:	2027
Cytogenetics:	16q12.2
RefSeq ORF:	1704
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# [TP320445]). The protein was produced from HEK293T cells transfected with CES1 cDNA clone (Cat# [RC220445]) using MegaTran 2.0 (Cat# [TT210002]).