

Recombinant Full Length Human CES1 Protein, C-Flag-tagged

Cat. No. CES1-1145HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CES1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	60.4 kDa
AA Sequence	MWLRAFILATLSASAAWGHPSPPVVDTVHGKVLGKFVSLEGFAQPVAIFLGIPFAK PPLGPLRFTPPQP AEPWSFVKNATSYP MCTQDPKAGQLLSELF TNRKENIPLKLS EDCLYLN IYTPADLT KKNR L PVMVWIH GGGLMVGAASTYDGLALAAHENVVVVTIQY RLGIWGF FSTGDEHSRGNWGHLDQVAALRWVQDN IASFGG NPGSVTIFGESAGGE SVSVLVLSPLAKNLFHRAISESGVALTSVLVKKGDVKPLAEQIAITAGCKTTTSA VMV

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HCLRQKTEEELETTLKMFLSLDLQGDPRESQPLLGTVIDGMLLLKTPEELQAERN
 FHTVPYMGVI NKQEFGWLIPMLMSYPLSEGQLDQKTAMSLWKSYPVLCIAKELIPE
 ATEKYLGGTDDTVKKKDLFLDLI ADVMFGVPSVIVARNHRDAGAPTYMYEFQYRPS
 FSSDMKPKTVIGDHGDELFSVFGAPFLKEGASEEEIR LSKMVMKFWANFARNGNPN
 GEGLPHWPEYNQKEGYLQIGANTQAAQKLKDKKEVAFWTNLFKAKKAVEKPPQ
 TEHIELTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Drug metabolism - other enzymes
Full Length	Full L.

GENE INFORMATION

Gene Name	CES1 carboxylesterase 1 [Homo sapiens (human)]
Official Symbol	CES1

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Synonyms	CEH; REH; TGH; ACAT; CE-1; CES2; HMSE; SES1; HMSE1; PCE-1; hCE-1
Gene ID	1066
mRNA Refseq	NM_001266.5
Protein Refseq	NP_001257.4
MIM	114835
UniProt ID	P23141



Coomassie blue staining of purified CES1 protein.

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