

# Recombinant Human CES2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CES2-4904H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CES2 MS Standard C13 and N15-labeled recombinant protein (NP_932327) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | 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. The protein encoded by this gene is the major intestinal enzyme and functions in intestine drug clearance. Alternatively spliced transcript variants have been found for this gene. |
| <b>Molecular Mass</b>   | 66.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MTAQRSRPTTPTFPGPSQRTPLTPCPVQTPRLGKALHCWTDPGQPLGEQQRVRR<br>QRTETSEPTMRLHRLRARLSAVACGLLLLLVLRGQGQDSASPIRTTHTGQVLGSLVHV<br>KGANAGVQTFLGIPFAKPPPLGPLRFAPPEPPESWSGVRDGTTHPAMCLQDLTAVES<br>EFLSQFNMTFSDSMSSEDCLYLSIYTPAHSHEGSNLPVMVWIHGGALVFGMASLYD<br>GSMLAALENVVVVIIQYRLGVLGFFSTGDKHATGNWGYLDQVAALRWVQQNIAHFG<br>GNPDRVTIFGESAGGTSVSSLVVSPIQGLFHGAIMESGVALLPGLIASSADVISTVVA                                                                                                                                                                                                            |

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NLSACDQVDSEALVGCLRGKSKEEILAINKPFKMIPGVVDGVFLPRHPQELLASADF  
 QPVPISIVGVNNNEFGWLIPKVMRIYDTQKEMDREASQAALQKMLTLLMLPPTFGDLL  
 REEYIGDNGDPQTLQAQFQEMMADSMFVIPALQVAHFQCSRAPVYFYEFQHQPSW  
 LKNIRPPHMKADHVKFTEEEEQLSRKMMKYWANFARNGNPNNGEGLPHWPLFDQEE  
 QYLQLNLQPAVGRALKAHRLQFWKKALPQKIQELEEEPEERHTELTRTRPLEQKLISE  
 EDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** CES2 carboxylesterase 2 [ Homo sapiens (human) ]

**Official Symbol** CES2

**Synonyms** CES2; carboxylesterase 2; carboxylesterase 2 (intestine, liver); cocaine esterase; CE 2; CES2A1; iCE; hCE-2; methylumbelliferyl-acetate deacetylase 2; intestinal carboxylesterase; liver carboxylesterase-2; CE-2; PCE-2;

**Gene ID** 8824

**mRNA Refseq** NM\_198061

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**Protein Refseq** NP\_932327

**MIM** 605278

**UniProt ID** O00748

**SDS-PAGE**



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