

Active Recombinant Human CES2

Cat. No. CES2-1140H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CES2 was expressed in Baculovirus-Insect cells.
Species	Human
Source	BTI Insect Cell
Bio-activity	Member of a serine esterase family that hydrolyze ester and amide bonds. Carboxylesterase 2 is an endoplasmic reticulum-bound hydrolase that plays a critical role in xenobiotic detoxification and activation for ester-containing therapeutics. Carboxylesterase 2 is also involved in the detoxification of drugs such as heroin and cocaine. This enzyme is thought to play a role in lipid metabolism. Carboxylesterase 2 human identifies the site containing a large alcohol and small acyl group. It shows less transesterification activity due to presence of conformational interference in active site.
Molecular Mass	It has two glycosylation sites at 103 and 267 residues with molecular mass 60kDa.
Applications	Carboxylesterase 2 may play a key role in biotransformation of a variety of ester containing drugs and prodrugs.
Storage	-70°C
Shipping	dry ice

GENE INFORMATION

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Gene Name	CES2 carboxylesterase 2 [Homo sapiens (human)]
Official Symbol	CES2
Synonyms	CES2; carboxylesterase 2; iCE; CE-2; PCE-2; CES2A1; cocaine esterase; carboxylesterase 2 (intestine, liver); hCE-2; intestinal carboxylesterase; liver carboxylesterase-2; methylumbelliferyl-acetate deacetylase 2; NP_003860.2; EC 3.1.1.1; EC 3.1.1.56; EC 3.1.1.84; NP_932327.1
Gene ID	8824
mRNA Refseq	NM_003869
Protein Refseq	NP_003860
MIM	605278
UniProt ID	O00748
Chromosome Location	16q22.1
Pathway	Drug metabolism - other enzymes; E2F transcription factor network; Fluoropyrimidine Activity; Phase I, non P450
Function	carboxylic ester hydrolase activity; methylumbelliferyl-acetate deacetylase activity