

Active Recombinant Human CES2 Protein

Cat. No. CES2-107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CES2 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-559 aa
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. 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.
Bio-activity	CES Activity Data(Unless otherwise stated, all assays are carried out at 30 centigrade in 50 mM potassium phosphate buffer (pH 7.4)/acetonitrile, 98/2 (v/v)) Substrate: 4-nitrophenyl butyrate Linear with time up to: 5 min(Determined at 90 µM substrate, using a protein concentration of 5 µg/ml) Linear with protein up to: 10 µg/ml(Determined at 90 µM substrate) Vmax: 3586 nmol/min/mg protein Km: 156 µM

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Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	Protein Concentration: 10 mg/ml
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
GENE INFORMATION	
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); intestinal carboxylesterase; liver carboxylesterase-2; methylumbelliferyl-acetate deacetylase 2
Gene ID	8824
mRNA Refseq	NM_001365405
Protein Refseq	NP_001352334
MIM	605278
UniProt ID	O00748

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