

Active Recombinant Human CES2 Protein, His-tagged

Cat. No. CES2-22H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CES2 protein (Gln27-Leu559) with a C-terminal 10-His tag was expressed in mouse myeloma cell line.
Species	Human
Source	Mammalian Cells
ProteinLength	27-559 a.a.
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	Measured by its ability to hydrolyze p-nitrophenylacetate. The specific activity is >30,000 pmol/min/μg, measured under the described conditions.
Molecular Mass	60 kDa
N-terminal Sequence Analysis	Gln27 predicted

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 µm filtered solution in Sodium Acetate, NaCl and Glycerol.

GENE INFORMATION

Gene Name	CES2
Official Symbol	CES2 carboxylesterase 2 [Homo sapiens (human)]
Synonyms	Carboxylesterase 2; CE-2; CES2; PCE-2; carboxylesterase 2; iCE; CES2A1; cocaine esterase; carboxylesterase 2 (intestine, liver); hCE-2; intestinal carboxylesterase; liver carboxylesterase-2; methylumbelliferyl-acetate deacetylase 2; EC 3.1.1.1; EC 3.1.1.56; EC 3.1.1.84
Gene ID	8824
mRNA Refseq	NM_003869
Protein Refseq	NP_003860
MIM	605278
UniProt ID	O00748

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA