

Active Recombinant Human CES1 Protein (His19-Glu563), C-10xHis tagged

Cat. No. CES1-13H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human Carboxylesterase 1/CES1 Protein (His19-Glu563) with a C-terminal 10-His tag was expressed in Mouse myeloma cell line.

Species

Human

Source

NS0

ProteinLength

His19-Glu563

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.

Bio-activity

Measured by its ability to hydrolyze p-nitrophenylacetate. The specific activity is > 6000 pmol/min/μg, as measured under the described conditions.

Molecular Mass

Predicted Molecular Mass: 61 kDa
SDS-PAGE: 61 kDa, reducing conditions

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N-terminal Sequence Analysis	His19
Endotoxin	< 1.0 EU/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, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Sodium Acetate and NaCl.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	CES1 carboxylesterase 1 [Homo sapiens (human)]
Official Symbol	CES1
Synonyms	CES1; carboxylesterase 1; CEH; REH; TGH; ACAT; CE-1; CES2; HMSE; SES1; HMSE1; PCE-1; hCE-1; liver carboxylesterase 1; acyl coenzyme A:cholesterol acyltransferase; brain carboxylesterase hBr1; carboxylesterase 1 (monocyte/macrophage serine esterase 1); carboxylesterase 2 (liver); cholesteryl ester hydrolase; cocaine carboxylesterase; egasyn; human monocyte/macrophage serine esterase 1; methylumbelliferyl-acetate deacetylase 1; monocyte/macrophage serine esterase; retinyl ester hydrolase; serine esterase 1; triacylglycerol hydrolase; EC 3.1.1.1; EC 3.1.1.13; EC 3.1.1.56
Gene ID	1066

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mRNA Refseq	NM_001025194
Protein Refseq	NP_001020365
MIM	114835
UniProt ID	P23141

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