

Active Recombinant Mouse Ces1d protein, His-tagged

Cat. No. Ces1d-901M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ces1d(Tyr19-Glu561) fused with His tag at C-terminal was expressed in NS0.
Species	Mouse
Source	Mammalian Cells
ProteinLength	Tyr19-Glu561
Description	Carboxylesterase 3 is a member of a large family of carboxylesterases that are responsible for the hydrolysis of ester and amide bonds. These carboxylesterases are widely distributed in mammalian tissues and have broad substrate specificity ranging from small molecule esters such as phenylester to long-chain fatty acid esters and thioesters. Because many ester-containing drugs require the ester linkage to improve the bioavailability of therapeutic agents, CESs play a major role in drug metabolism and activation. CES3 is also known as triacylglycerol hydrolase for its lipolytic activity. It has been reported to be the major lipase in white adipose tissue.
Predicted N Terminal	Tyr19
Form	Supplied as a 0.2 µm filtered solution in MES and NaCl.
Bio-activity	Measured by its ability to hydrolyze p-nitrophenylacetate. The specific activity is >11,000 pmol/min/µg, as measured under the described conditions.

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Molecular Mass	Predicted Molecular Mass: 61 kDa;SDS-PAGE: 58 kDa, reducing conditions.
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, -20 to -70 centigrade as supplied.3 months, -20 to -70 centigrade under sterile conditions after opening.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	Ces1d carboxylesterase 1D [Mus musculus]
Official Symbol	Ces1d
Synonyms	TGH; Ces3; FAEE synthase; carboxylesterase 3; fatty acid ethyl ester synthase; triacylglycerol hydrolase
Gene ID	104158
mRNA Refseq	NM_053200
Protein Refseq	NP_444430
MIM	
UniProt ID	Q8VCT4

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Chromosome Location	8; 8 C5
Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Irinotecan Pathway, organism-specific biosystem
Function	carboxylic ester hydrolase activity; fatty-acyl-ethyl-ester synthase activity; hydrolase activity

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