

Active Recombinant Mouse Ces1d protein, His-tagged

Cat. No. Ces1d-900M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ces1d(Met1-Glu561) fused with His tag at C-terminal was expressed in Mouse NSO Cells.
Species	Mouse
Source	HEK293
ProteinLength	Met1-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	Tyr 19
Form	Lyophilized from sterile PBS, pH 7.4.1. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.2. Please contact us for any concerns or special requirements.
Bio-activity	Measured by its ability to hydrolyze p-nitrophenylacetate.The specific activity is >

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	11000 pmoles/min/μg.
Molecular Mass	The recombinant mouse CES3 comprises 554 amino acids and has a predicted molecular mass of 60.8 kDa. The apparent molecular mass of the protein is approximately 53 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	Ces1d carboxylesterase 1D [Mus musculus]
Official Symbol	Ces1d
Synonyms	TGH; Ces3; FAEE synthase; carboxylesterase 3; fatty acid ethyl ester synthase;

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	triacylglycerol hydrolase
Gene ID	104158
mRNA Refseq	NM_053200
Protein Refseq	NP_444430
MIM	
UniProt ID	Q8VCT4
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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