

Active Recombinant Mouse Ces1g Protein (His19-Leu565), C-6×His tagged

Cat. No. Ces1g-14M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Carboxylesterase 1/CES1 Protein (His19-Leu565) with a C-terminal 6-His tag was expressed in Mouse myeloma cell line.
Species	Mouse
Source	NS0
ProteinLength	His19-Leu565
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. The expression and activity of this gene is age-related but independent of growth hormone level. This gene is clustered with Ces7 and Ces3 on chromosome 8.
Bio-activity	Measured by its ability to hydrolyze p-nitrophenylacetate. The specific activity is >330 pmol/min/μg, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 62 kDa SDS-PAGE: 55-60 kDa, reducing conditions

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

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

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N-terminal Sequence Analysis	His19
Endotoxin	< 0.01 EU/μg of the protein by the LAL method.
Purity	> 90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain at 5 μg per lane
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 Tris and NaCl.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	Ces1g carboxylesterase 1G [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ces1g
Synonyms	Ces1g; carboxylesterase 1G; liver carboxylesterase 1; ES-x; acyl-coenzyme A:cholesterol acyltransferase; carboxylesterase 1; cholesteryl ester hydrolase; EC 3.1.1.1; EC 3.1.1.13; CEH; Ces1; Ces-1; Ses-1
Gene ID	12623
mRNA Refseq	NM_021456
Protein Refseq	NP_067431

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UniProt ID

Q8VCC2

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