

Recombinant Mouse Ces1g Protein, His-tagged

Cat. No. Ces1g-748M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ces1g Protein (Gly31-Arg286) with His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Gly31-Arg286
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.5 kDa; Accurate Molecular Mass: 31 kDa
Purity	> 90%
Applications	Cell culture; Activity Assays.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

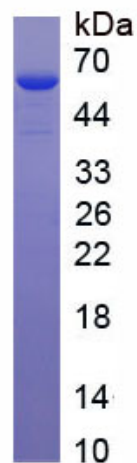
GENE INFORMATION

Gene Name	Ces1g carboxylesterase 1G [Mus musculus (house mouse)]
Official Symbol	Ces1g
Synonyms	Ces1g; carboxylesterase 1G; CEH; Ces1; Ces-1; Ses-1; 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
Gene ID	12623
mRNA Refseq	NM_021456
Protein Refseq	NP_067431
UniProt ID	Q8VCC2

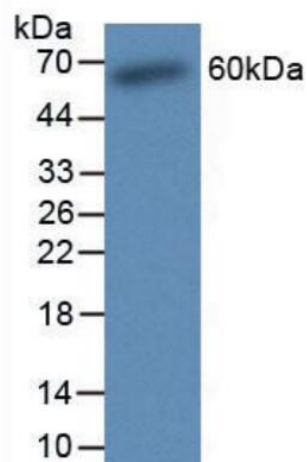
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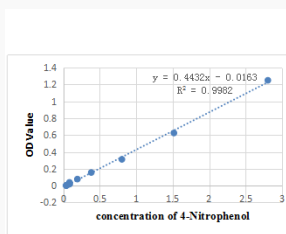


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The standard curve of 4-Nitrophenol.



The standard curve of 4-Nitrophenol

4-Nitrophenol (product)mM/L	OD400nm
1.25	2.806
0.625	1.5165
0.3125	0.8025
0.15625	0.382
0.078125	0.1915
0.0390625	0.0825
0.01953125	0.086
0.009765625	0.0545
0.004882813	0.044
0.002441406	0.036
0.001220703	0.0405

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