

Active Recombinant Mouse Ces1g Protein (19-565aa), C-His-tagged

Cat. No. Ces1g-12M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Carboxylesterase 1/CES1 (19-565aa), fused to His-tag at Cterminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
ProteinLength	19-565aa
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	Liquid
Bio-activity	> 2000 pmol/min/μg and is defined as the amount of enzyme that hydrolyze 1 pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH 7.5 at 37 centigrade.

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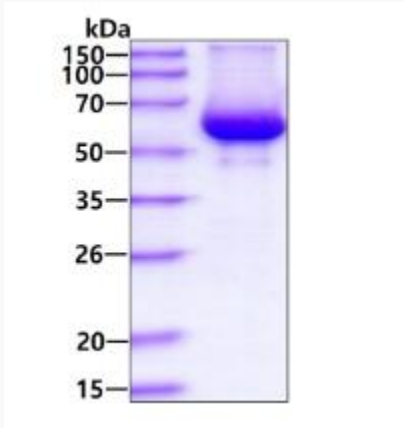
 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	61.9 kDa (556 aa)
AA Sequence	HPSLPPVVHTVHGKVLGKYVTLEGFSQPVAVFLGVPFAPPLGSLRFAPPEPAEPW SFVKHTTSYPPLCYQNPEAALRLAELFTNQRKIIPHKFSEDCLYLNITYTPADLTQNSRL PVMVWIHGGGLVIDGASTYDGVPLAVHENVVVVIQYRLGIWGFFSTEDHSRGNW GHLDQVAALHWVQDNIANFGGNPGSVTIFGESAGGESVSVLVLSPLAKNLFHRAIAQ SSVIFNPCLFGRAARPLAKKIAALAGCKTTTSAAMVHCLRQKTEDELLEVSLKMKFGT VDFLGDPRESYPFLPTVIDGVLLPKAPEEILAEKSFNTVPYMGINKHEFGWIIPMFLD FPLSERKLDQKTAASILWQAYPILNISEKLIPAAIEKYLGGTEDPATMTDLFLDLIGDIM FGVPSVIVSRSHRDAGAPTYMYEYQYRPSFVSDDRPQELLGDHADELFSVWGAPFL KEGASEEEINLSKMVMKFWANFARNGNPNGEGLPHWPEYDQKEGYLQIGVPAQAA HRLKDKEVDFWTELRAKETAERSSHREHVEL
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
GENE INFORMATION	
Gene Name	Ces1g carboxylesterase 1G [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ces1g

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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
UniProt ID	Q8VCC2
SDS-PAGE	 3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain