

Recombinant Mouse Ces1g Protein, His-tagged

Cat. No. Ces1g-49M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CES1G, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	CES1G, also known as liver carboxylesterase 1, is a member of a large family of carboxylesterases that are responsible for the hydrolysis of ester and amide bonds. CES1G shares the serine hydrolase fold observed in other esterases. It is a rat and mouse specific protein that is expressed predominantly in liver, but also in kidney and lung.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	61.9kDa (556aa)50-70KDa (SDS–PAGE under reducing conditions.)
AA Sequence	ADPHPSLPPV VHTVHGKVLG KYVTLEGFSQ PVAVFLGVPF AKPPLGSLRF APPEPAEPWS FVKHTTSYPP LCYQNPEAAL RLAEFTNQRKIIPHKFSED CLYLNIYTPA DLTQNSRLPV MVWIHGGGLV IDGASTYDGV PLAVHENVVV VVIQYRLGIW GFFSTEDEHS RGNWGHLDQVAALHWVQDNI ANFGGNPGSV TIFGESAGGE SVSVLVLSPL AKNLFHRAIA QSSVIFNPCL FGRAARPLAK KIAALAGCKT TTSAMVHCLRQKTEDELLE VSLKMKFGTV DFLGDPRESY PFLPTVIDGV LLPKAPEEIL AEKSFNTVPY MVGINKHEFG WIIPMFLDFP LSERKLDQKTAASILWQAYP ILNISEKLIP AAIEKYLGGT EDPATMTDLF

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LDLIGDIMFG VPSVIVSRSH RDAGAPTYMY EYQYRPSFVS
 DDRPQELLGDHADELFSVWG APFLKEGASE EEINLSKMVM KFWANFARNG
 NPNGEGLPHW PEYDQKEGYL QIGVPAQAAH RLKDKEVDFW
 TELRAKETAERSSSHREHVEL HHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >90% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [Ces1g carboxylesterase 1G \[Mus musculus \]](#)

Official Symbol [Ces1g](#)

Synonyms Liver carboxylesterase 1; CES1G; Ces-1; Ces1; Ses-1

Gene ID [12623](#)

mRNA Refseq [NM_021456](#)

Protein Refseq [NP_067431](#)

MIM

UniProt ID [Q8VCC2](#)

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Chromosome Location	8 C5; 8 45.29 cM
Pathway	Phase I, non P450, organism-specific biosystem
Function	1-oxa-2-oxocycloheptane lactonase activity; 3,4-dihydrocoumarin hydrolase activity; Cys-tRNA(Pro) hydrolase activity

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