

Recombinant mouse Carboxylesterase 1/CES1 protein

Catalog Number: ATGP3865

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-565aa

UniProt No.

Q8VCC2

NCBI Accession No.

NP_067431

Alternative Names

Liver carboxylesterase 1, Carboxylesterase 1/CES1, CES1G, Ces-1, Ces1, Ses-1, Acyl-coenzyme A:cholesterol acyltransferase, Carboxylesterase 1G, ES-x, ATGP3329

PRODUCT SPECIFICATION

Molecular Weight

61.9 kDa (556aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity is > 2,000pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH 7.5 at 37C

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

Carboxylesterase 1/CES1, 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. Recombinant mouse Carboxylesterase 1/CES1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques. This product has replaced ATGP3329.

Amino acid Sequence

```
<ADP>HPSLPPV VHTVHGKVLG KYVTLEGFSQ PVAVFLGVFP AKPPLGSLRF APPEPAEPWS FVKHTTSYPP LCYQNPEAAL  
RLAELFTNQR KIIPHKFSED CLYLNIYTPA DLTQNSRLPV MVWIHGGGLV IDGASTYDGV PLAVHENVVV VVIQYRLGIW  
GFFSTEDEHS RGNWGHLDQV AALHWVQDNI ANFGGNPGSV TIFGESAGGE SVSVLVLSPL AKNLFHRAIA QSSVIFNPCL  
FGRAARPLAK KIAALAGCKT TTAAMVHCL RQKTEDELLE VSLKMKFGTV DFLGDPRESY PFLPTVIDGV LLPKAPEEIL  
AEKSFNTVPY MVGINKHEFG WIIPMFLDFP LSERKLDQKT AASILWQAYP ILNISEKLIP AAIEKYLGGT EDPATMTDLF  
LDLIGDIMFG VPSVIVSRSH RDAGAPTYMY EYQYRPSFVS DDRPQELLGD HADELFSVWG APFLKEGASE EEINLSKMVM  
KFWANFARNG NPNGEGLPHW PEYDQKEGYL QIGVPAQAAH RLKDKEVDFW TELRAKETAE RSSHREHVEL <HHHHHH>
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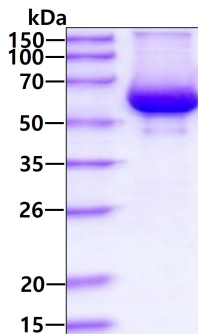
General References

Satoh T., et al. (2006) Chem Biol Interact. 162:195-211.

Fleming CD., et al. (2007) Biochemistry. 46:5063-5071.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.