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

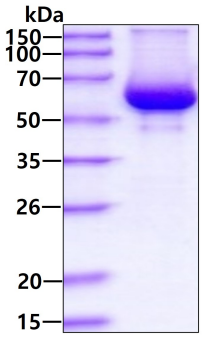
<ADP>HPSLPPV VHTVHGKVLG KYVTLEGFSQ PVAVFLGVPF AKPPLGSLRF APPEPAEPWS FVKHTTSYPP LCYQNPEAAL RLAELFTNQR KIIPHKFSED CLYLNIYTPA DLTQNSRLPV MVWIHGGGLV IDGASTYDGV PLAVHENVVV VVIQYRLGIW GFFSTEDEHS RGNWGHLDQV AALHWVQDNI ANFGGNPGSV TIFGESAGGE SVSVLVLSPL AKNLFHRAIA QSSVIFNPCL FGRAARPLAK KIAALAGCKT TTSAAMVHCL RQKTEDELLE 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>

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.