Recombinant mouse Ces2e protein

Catalog Number: ATGP3273

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
27-559aa

UniProt No.
Q8BK48

NCBI Accession No.
NP_766347.1

Alternative Names
9030624L02Rik, Ces5, Ces2e

PRODUCT SPECIFICATION

Molecular Weight
60.5 kDa (541aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

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

Purity
> 95% by SDS-PAGE

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

Biological Activity
Specific activity is > 30unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0 umole of p-nitrophenyl acetate to p-nitrophenol per minute at pH 7.5 at 25C.

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.

BACKGROUND

Recombinant mouse Ces2e protein

Catalog Number: ATGP3273

Description

CES2E, also known as pyrethroid hydrolase Ces2e, is a type of enzyme that capable of hydrolyzing a variety of carboxylic acid esters and it is widely distributed in cells especially in mammalian liver. It is involved in the chemical reaction, exerting its role in catalyzing the carboxylic ester and water to convert to an alcohol and a carboxylate. Recombinant mouse CES2E, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

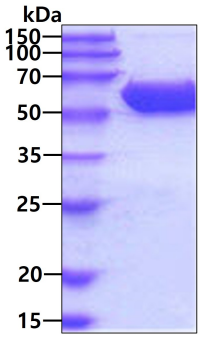
QDSASPIRNT HTGQVRGSLV HVKDTDIAVH TFLGIPFAKP PVGPLRFAPP EAPEPWSGVR DGTSHPNMCL QNDNLMGSED LKMMNLILPP ISMSEDCLYL NIYVPAHAHE GSNLPVMVWI HGGALTVGMA SMYDGSMLAA TEDVVVVAIQ YRLGVLGFFS TGDQHAKGNW GYLDQVAALR WVQQNIVHFG GNPDRVTIFG ESAGGTSVSS HVVSPMSQGL FHGAIMESGV AVLPDLISSS SEMVHRIVAN LSGCAAVNSE TLMCCLRGKN EAEMLAINKV FKIIPGVVDG EFLPKHPQEL MASKDFHPVP SIIGINNDEY GWILPTIMDP AQKIEEITRK TLPAVLKSTA LKMMLPPECG DLLMEEYMGD TEDPETLQAQ FREMKGDFMF VIPALQVAHF QRSHAPVYFY EFQHRPSFFK DFRPPYVKAD HGDEIFLVFG YQFGNIKLPY TEEEEQLSRR IMKYWANFAR HGNPNSEGLP YWPVMDHDEQ YLQLDIQPSV GRALKARRLQ FWTKTLPQKI QELKGSQERH KEL<LEHHHHH H>

General References

Stok JE., et al. (2004) J Biol Chem. 279:29863-29869.
Holmes RS., et al. (2008) Comp Biochem Physiol Part D Genomics Proteomics. 3:196-204.

DATA

SDS-PAGE



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