

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

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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 SMYDGSMMLAA TEDVVVVAIQ YRLGVLGFFS
TGDQHAKGNW GYLDQVAALR WVQQNIVHFG GNPDRVTIFG ESAGGTSVSS HVVSPMSQGL FHGAIMESGV AVLPLDISSS
SEMVHRIVAN LSGCAAVNSE TLMCCLRGNK EAEMLAINKV FKII PGVVDG EFLPKHPQEL MASKDFHPVP SIIGINNDEY
GWILPTIMDP AQKIEEITRK TLPVAVLKSTA LKMMLPPECG DLLMEEYMGD TEDPETLQAQ FREMKGDFMF VIPALQVAHF
QRSHAPVYFY EFQHRPSFFK DFRPPYVKAD HGDEIFLVFG YQFGNIKLPY TEEEEEQLSRR IMKYWANFAR HGPNPSEGLP
YWPVMDHDEQ YLQLDIQPSV GRALKARRLQ FWTKTLPQKI QELKGSQERH KEL<LEHHHHH H>

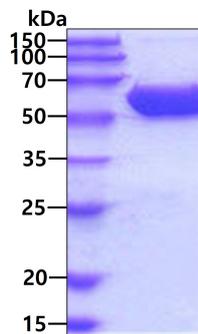
General References

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.