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# Recombinant mouse Carboxylesterase 3/CES3 protein

Catalog Number: ATGP3467

## **PRODUCT INFORMATION**

## **Expression system**

Baculovirus

#### **Domain**

19-565aa

#### UniProt No.

O8VCT4

#### **NCBI Accession No.**

NP 444430

#### **Alternative Names**

Carboxylesterase 1D, Ces1d, Ces3, TGH

## PRODUCT SPECIFICATION

### **Molecular Weight**

60.9 kDa (555aa)

#### 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 > 80,000pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1pmole of pnitrophenyl 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.

## **BACKGROUND**



## Recombinant mouse Carboxylesterase 3/CES3 protein

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## **Description**

Ces1d, also known as carboxylesterase 1D, is a member of a large family of carboxylesterases that are responsible for the hydrolysis of ester and amide bonds. It is the principle lipase of white adipose tissue fat cake extracts. Partially purified white adipose tissue Ces1d had lipase activity as well as lesser but detectable neutral cholesteryl ester hydrolase activity. The protein shows low catalytic efficiency for hydrolysis of CPT-11, a prodrugs for camptothecin used in cancer therapeutics. Recombinant mouse Ces1d, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

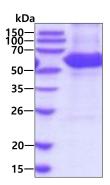
YPSSPPVVNT VKGKVLGKYV NLEGFTQPVA VFLGVPFAKP PLGSLRFAPP QPAEPWSFVK NTTSYPPMCS QDAVGGQVLS ELFTNRKENI PLQFSEDCLY LNIYTPADLT KNSRLPVMVW IHGGGLVVGG ASTYDGLALS AHENVVVVTI QYRLGIWGFF STGDEHSRGN WGHLDQVAAL RWVQDNIANF GGNPGSVTIF GESAGGFSVS VLVLSPLAKN LFHRAISESG VSLTAALITT DVKPIAGLVA TLSGCKTTTS AVMVHCLRQK TEDELLETSL KLNLFKLDLL GNPKESYPFL PTVIDGVVLP KAPEEILAEK SFSTVPYIVG INKQEFGWII PTLMGYPLAE GKLDQKTANS LLWKSYPTLK ISENMIPVVA EKYLGGTDDL TKKKDLFQDL MADVVFGVPS VIVSRSHRDA GASTYMYEFE YRPSFVSAMR PKAVIGDHGD EIFSVFGSPF LKDGASEEET NLSKMVMKFW ANFARNGNPN GGGLPHWPEY DOKEGYLKIG ASTOAAORLK DKEVSFWAEL RAKESAORPS HREHVEL<LEH HHHHH>

## **General References**

Soni KG., et al. (2004) J. Biol. Chem. 279:40683-40689. Sanghani SP., et al. (2004) Drug Metab Dispos. 32:505-511.

## **DATA**

#### **SDS-PAGE**



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

