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## Product Data Sheet

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Product Name: CES1D Mouse  
 Cat. No.: GP21478  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Carboxylesterase 1D; Carboxylesterase 3 (EC:3.1.1.1; EC:3.1.1.67); Fatty acid ethyl ester synthase; FAEE synthase; Triacylglycerol hydrolase; TGH; CES1D.		
Amino Acid Sequence	YPSSPPVVNT VKGKVLGKYV NLEGFTQPVA VFLGVPFACK PLGSLRFAPP QPAEPWSFVK NTTSYPPMCS QDAVGGQVLS ELFTNRKENI PLQFSEDCLY LNIYTPADLT KNSRLPVMVW IHGGGLVVGG ASTYDGLALS AHENVVVVTI QYRLGIWGGF STGDEHSRGN WGHLDQVAAL		
Formulation	CES1D protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

### Introduction

Carboxylesterase 1D, also known as CES1D is part of a big family of carboxylesterases which are responsible for the hydrolysis of ester in addition to amide bonds. CES1D is the principle lipase of white adipose tissue fat cake extracts. Partially purified white adipose tissue Ces1d had lipase activity in addition to lesser but detectable neutral cholesteryl ester hydrolase activity. CES1D demonstrates low catalytic efficiency for hydrolysis of CPT-11, a prodrug for camptothecin used in cancer therapeutics.

### Biological Activity

Specific activity is > 80,000 pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1 pmole of p-nitrophenyl acetate to p-nitrophenol per minute at pH 7.5 at 37°C.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CES1D Mouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 555 amino acids (19-565 a.a) and having a molecular mass of 60.9kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). CES1D is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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