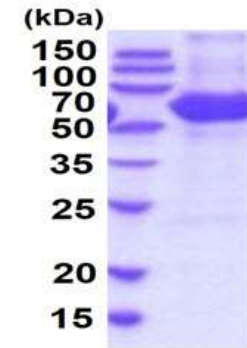


## Carboxylesterase 1D, mouse recombinant

<b>CATALOG NO:</b>	P1094-2 P1094-10	2 µg 10 µg
<b>ALTERNATE NAMES:</b>	Ces1d, Carboxylesterase 3, FAEE synthase, TGH, Ces3	
<b>CONCENTRATION:</b>	0.5 mg/ml (determined by Absorbance at 280nm)	
<b>SOURCE:</b>	Recombinant Ces1d protein was expressed in insect cell (Baculovirus) and fused to His-tag at N-terminus (555aa)	
<b>PURITY:</b>	> 90% by SDS-PAGE	
<b>MOL. WEIGHT:</b>	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 60.9 kDa (555aa). Predicted N terminal is Tyr19. The protein migrates at 50-70 KDa in SDS-PAGE under reducing conditions.	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1 µg of protein (determined by LAL method)	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.	
<b>STORAGE CONDITIONS:</b>	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.	
<b>DESCRIPTION:</b>	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.	
<b>BIOLOGICAL ACTIVITY:</b>	Specific activity is > 80,000 pmol/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.	
<b>AMONO ACID SEQUENCE:</b>	YPSSPPVVNT VKGKVLGKYV NLEGFTQPVA VFLGVPFAPK 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 LLWKSYPYTLK ISENMIPVVA EKYLGGTDDL  
 TKKKDLFQDL MADVVFVGVPS VIVSRSHRDA GASTYMYEFE YRPSFVSAMR  
 PKAVIGDHGD EIFSVFGSPF LKDGASEEET NLSKMVMKFW ANFARNGNPN  
 GGGLPHWPEY DQKEGYLKIG ASTQAAQLRK DKEVSFWAEL RAKESAQRPS  
 HREHVELLEH HHHHH



15% SDS-PAGE (3ug)

Mouse recombinant Carboxylesterase 1D

### RELATED PRODUCT:

- ACAT-2, human recombinant (Cat. No. 4912-20)

**FOR RESEARCH USE ONLY! Not to be used on humans.**