

Carboxylesterase 1D Active Protein | CES1D active protein

Recombinant Mouse Carboxylesterase 1D

CATALOG # AAA39142	HOST Sf9, Baculovirus cells
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PRODUCT SYNONYMS

Carboxylesterase 1D; Recombinant Mouse Carboxylesterase 1D; CES1D Mouse; Carboxylesterase 3 (EC: 3.1.1.1; EC: 3.1.1.67); Fatty acid ethyl ester synthase; FAEE synthase; Triacylglycerol hydrolase; TGH; CES1D; Carboxylesterase 1D Mouse Recombinant; CES1D active protein

PRODUCT SPECIFICATIONS

Host	Sf9, Baculovirus cells
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	Sterile filtered colorless solution. CES1D protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Sequence	YPSSPPVNT VKGKVLGKYV NLEGFTQPVA VFLGVPFAPK PLGSLRFAPP QPAEPWSFVK NTTSYPPMCS QDAVGGQVLS ELFTNRKENI PLQFSEDCLY LNIYTPADLT KNSRLPVMVW IHGGGLVVG ASTYDGLALS AHENVVVVTI QYRLGIWGGF STGDEHSRGN WGHLDQVAAL RWVQDNIANF GGNPGSVTIF GESAGGFSVS VLVLSPLAKN LFHRAISEG VSLTAALITT DVKPIAGLVA TLSGCKTTTS AVMVHCLRQK TEDELLETSL KLNLFKDLL GNPKESYPFL PTVIDGVVLP KAPEEILAEK SFSTVPYIVG INKQEFGWII PTLMGYP LAE GKLDQKTANS LLWKSYP TLK ISENMPVVA EKYLG GTDDL TKKKDLFQDL MADVVFGVPS VIVSRSHRDA GASTYMYEFE YRPSFVSAMR PKAVIGDHGD EIFSVFGSPF LKDGASEEET NLSKMVMKFW ANFARNGNPN GGGLPHWPEY DQKEGYLKIG ASTQAAQLK DKEVSFWAEL RAKESAQRPS HREHVEL <u>LEHHHHHH</u> .
Sequence Length	565
Biological Activity	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.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CES1D active protein	Description: 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. 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 prodrugs for camptothecin used in cancer therapeutics.
Product Categories/Family for CES1D active protein	Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	117553604
NCBI GeneID	104158

NCBI Accession #	NP_444430.2
NCBI GenBank Nucleotide #	NM_053200.2
UniProt Accession #	Q8VCT4 ; Q91ZV9 ; Q924V8 ; Q9ULY1
Molecular Weight	61,788 Da
NCBI Official Full Name	carboxylesterase 1D
NCBI Official Synonym Full Names	carboxylesterase 1D
NCBI Official Symbol	Ces1d
NCBI Official Synonym Symbols	TGH; Ces3
NCBI Protein Information	carboxylesterase 1D
UniProt Protein Name	Carboxylesterase 1D
UniProt Gene Name	Ces1d
UniProt Synonym Gene Names	; FAEE synthase; TGH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sf9-baculovirus-cells-ces1d-active-protein/carboxylesterase-1d/39142>