

## 32-6696: CES1D Mouse

**Application :** Functional Assay

**Alternative Name :** 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.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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.

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.

### Product Info

**Amount :** 1 µg / 5 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** CES1D protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** 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% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** YPSSPPVVNT VKGKVLGKYV NLEGFTQPVA VFLGVPFAPK PLGSLRFAPP QPAEPWSFVK NTTSYPPMCS QDAVGGQVLS ELFTNRKENI PLQFSEDCLY LNIYTPADLT KNSRLPVMVW IHGGGLVVGG ASTYDGLALS AHENVVVVTI QYRLGIWGFF STGDEHSRGN WGHLDQVAAL

### Application Note

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.