

32-6695: CES1G Mouse

Application : Functional Assay

Alternative Name : Liver carboxylesterase 1, Acyl-coenzyme A:cholesterol acyltransferase, Carboxylesterase 1G, ES-x, CES1G.

Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Carboxylesterase 1 (CES1G) belongs to a large family of carboxylesterases that are liable for the hydrolysis of ester and amide bonds. CES1G is also participates in the detoxification of xenobiotics prodrugs. CES1G shares the serine hydrolase fold observed in other esterases. CES1G found in rats and mice and is expressed mainly in liver, but also in kidney and lung.

CES1G produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 556 amino acids (19-565 a.a.) and having a molecular mass of 61.9kDa (Migrates at 50-70kDa on SDS-PAGE under reducing conditions). CES1G is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

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

Content : CES1G protein solution (0.5mg/ml) containing 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 : ADPHPSLPPV VHTVHGKVLG KYVTLEGFSQ PVAVFLGVPF AKPPLGSLRF APPEPAEPWS
FVKHTTSYPP LCYQNPEAAL RLAEFTNQR KIIPHKFSED CLYLNIYTPA DLTQNSRLPV
MVWIHGGGLV IDGASTYDGV PLAVHENVVV VVIQYRLGIW GFFSTEDEHS RGNWGHLDQV
AALHWVQDNI ANFGGNPGSV TIFGESAGGE SVSVLVLSPL AKNLFHRAIA QSSVIFNPCL
FGRAARPLAK KIAALAGCKT TTSAAMVHCL RQKTEDELLE VSLKMKFGTV DFLGDPRESY
PFLPTVIDGV LLPKAPEEIL AEKSFNTVPY MVGINKHEFG WIIPMFLDFP LSERKLDQKT
AASILWQAYP ILNISEKLIP AAIEKYLGGT EDPATMTDLF LDLIGDIMFG VPSVIVSRSH
RDAGAPTYMY EYQYRPSFVS DDRPQELLGD HADELFSVWG APFLKEGASE EEINLSKMVM
KFWANFARNG NPNGEGLPHW PEYDQKEGYL QIGVPAQAAH RLKDKEVDFW TELRAKETAE
RSSHREHVEL HHHHHH.

Application Note

Specific activity is > 2,000 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.