
Product Data Sheet

Product Name: CES1G Mouse

Cat. No.: GP21477

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Liver carboxylesterase 1; Acyl-coenzyme A:cholesterol acyltransferase; Carboxylesterase 1G; ES-x; CES1G.		
Amino Acid Sequence	<p>ADPHPSLPPVVHTVHGKVLG KYVTLEGFSQ PVAVFLGVPF AKPPLGSLRF APPEPAEPWS FVKHTTSYPP LCYQNPEAALRLAELFTNQR KIIPHKFSED CLYLNITYTPA DLTQNSRLPV MVWIHGGGLV IDGASTYDGV PLAVHENVVVVVIQYRLGIW GFFSTEDEHS RGNWGHLDQV AALHWVQDNI ANFGGNPGSV TIFGESAGGE SVSVLVLSPLAKNLFHRAIA QSSVIFNPCL FGRAARPLAK KIAALAGCKT TTSAMVHCL RQKTEDELLE VSLKMKFGTVDFLGD PRESY PFLPTVIDGV LLPKAPEEIL AEKSFNTVPY MVGINKHEFG WIIPMFLDFP LSERKLDQKT AASILWQAYPILNISEKLIP AAIEKYLGGT EDPATMTDLF LDLIGDIMFG VPSVIVSRSH RDAGAPTMY EYQYRPSFVSDDRPQELLGD HADELFSVWG APFLKEGASE EEINLSKMVM KFWANFARNG NPNGEGLPHW PEYDQKEGYLQIGVPAQAAH RLKDKEVDFW TELRAKETAE RSSHREHVEL HHHHHH.</p>		
Formulation	CES1G protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Carboxylesterase1 (CES1G) belongs to a large family of carboxylesterases that are liable for the hydrolysis of ester and amide bonds. CES1G also participates in the detoxification of xenobiotics prodrugs. CES1G shares the serine hydrolase fold observed in other esterases. CES1G is found in rats and mice and is expressed mainly in liver, but also in kidney and lung.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer.

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

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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.

Background

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.

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