Product Data Sheet

Product Name:	CEL Mouse
Cat. No.:	GP26137
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9,Baculovirus cells.
Phycical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Bile salt-activated lipase, BAL, EC 3.1.1.13, EC 3.1.1.3, Bile salt-stimulated lipase, BSSL, Bucelipase, Carboxyl ester lipase, Cholesterol esterase, Pancreatic lysophospholipase, Sterol esterase, CEL, FAP, BSDL, CELL, FAPP, LIPA, Cease, MODY8.		
Amino Acid Sequence	AKLGAVYTEG GFVEGVNKKL SLLGGDSVDI FKGIPFATAK TLENPQRHPG WQGTLKATNFKKRCLQATIT QDNTYGQEDC LYLNIWVPQG RKQVSHNLPV MVWIYGGAFL MGSGQGANFLKNYLYDGEEI ATRGNVIVVT FNYRVGPLGF LSTGDANLPG NFGLRDQHMA IAWVKRNIAAFGGDPDNITI FGESAGAASV SLQTLSPYNK GLIRRAISQS GMALSPWAIQ KNPLFWAKTIAKKVGCPTED TGKMAACLKI TDPRALTLAY KLPVKKQEYP VVHYLAFIPV IDGDFIPDDPINLYNNTADI DYIAGINNMD GHLFATIDVP AVDKTKQTVT EEDFYRLVSG HTVAKGLKGAQATFDIYTES WAQDPSQENM KKTVVAFETD VLFLIPTEIA LAQHKAHAKS AKTYSYLFSHPSRMPIYPKW MGADHADDLQ YVFGKPFATP LGYRPQDRAV SKAMIAYWTN FARSGDPNMGNSPVPTHWYP YTLENGNYLD ITKTITSASM KEHLREKFLK FWAVTFEVLP TVTGDQDTLTPPEDDSEVAP DPPSDDSQVV PVPPTDDSVE AQMPATIGFH HHHHH		
Formulation	The CEL solution (0.5 mg/ml) contains 10% Glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

Carboxyl ester lipase also known as CEL, formely called cholesterol esterase or bile salt-stimulated lipase, is an enzyme with lipolytic capablity of hydrolyzing cholesteryl esters, tri-, di-, and mono- phospholipids, acylglycerol, ceramide and lysophospholipids. The carboxyl terminus of the enzyme controls enzymatic activity by creating hydrogen bonds

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with the surface loop to partlyshield the active site. The active catalytic site triad of serine-histidine-aspartate is centrally located in the enzyme structure and is partly covered by a surface loop. Bile salt binding to the loop domain set free the active site for accessibility by water-insoluble substrates. CEL is produced mainly in the pancreas and lactating mammary gland, thus the protein is also expressed in liver, macrophages, and in the vessel wall.

Biological Activity

Specific activity is > 100,000 pmol/min/ug. Measured by the amount of enzyme that hydrolyze 1.0 umole of p-nitrophenyl butyrate to p-nitrophenol per minute at pH7.5 at 25C?.

Stability

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.

Background

CEL Mouse produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 585 amino acids (21-599 aa) and having a molecular mass of 64.5kDa.CEL is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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