
Product Data Sheet

Product Name: CEL Human

Cat. No.: GP21475

Batch No.: 1

Product Data

Purity >98% Source Human breast milk.

Physical Appearance solid Shipping Condition Shipped at Room temp.

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 GLLGDSVDIF KGIPFAAPTK ALENPQPHPG
 WQGTKAKNF KKRCLQATIT QDSTYGDEDC LYLNIWVPQG RKQVSRDLPV
 MIWIYGGAFL MGS GHGANFL NNYLYDGEEI ATRGNVIVVT FNYRVGPLGF
 LSTGDANLPG NYGLRDQHMA IAWVKRNIAA FGGDPNNITL FGESAGGASV
 SLQTLSPYNK GLIRRAISQS GVALSPWVIQ KNPLFWAKKV AEKVGCPVGD
 AARMAQCLKV TDPRALTLAY KVPLAGLEYP MLHYVGFVPV IDGDFIPADP
 INLYANAADI DYIAGTNMMD GHIFASIDMP AINKGNKKVT EEDFYKLVSE
 FTITKGLRGA KTTFDVYTES WAQDPSQENK KKTVVDFETD VLFLVPTEIA
 LAQHRANAKS AKTYAYLF SH PSRMPVYPKW VGADHADDIQ YVFGKPFATP
 TGYRPQDRTV SKAMIAYWTN FAKTGDPNMG DSAVPTHWEP YTTENSGYLE
 ITKKMGSSSM KRSLRTNFLR YWTLTYLALP TVTDQEATPV PPTGDSEATP
 VPPTGDSETA PVPPTGDSGA PPVPPTGDSG APPVPPTGDS GAPPVPPTGD
 SGAPPVPPTG DSGAPPVPPT GDSGAPPVPP TGDSGAPPVP PTGDSGAPPV
 PPTGDAGPPP VPPTGDSGAP PVPPTGDSGA PPVTPTGDSE TAPVPPTGDS
 GAPPVPPTGD SEAAPVPPTD DSKEAQMPAV IRF.

Solubility It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. CEL is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

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

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Formulation CEL protein filtered (0.4 μ m) and lyophilized in 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl pH 7.4.

Introduction

Bile salt-activated lipase (BAL or CEL) is a glycoprotein secreted from the pancreas into the digestive tract and from the lactating mammary gland into human milk. The milk of mammals, including humans, contains BAL to enable fat absorption in infants. The Human breast milk contains a bile salt activated lipase at very high levels. The physiological role of CEL is in cholesterol and lipid-soluble vitamin ester hydrolysis and absorption. BAL promotes large chylomicron production in the intestine. CEL's presence in the plasma suggests its interactions with cholesterol and oxidized lipoproteins to modulate the progression of atherosclerosis. In pancreatic tumor cells, CEL is assumed to be sequestered within the Golgi compartment and is probably not secreted.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

The Carboxyl Ester Lipase produced from Human breast milk has a molecular mass of 79.322kDa (calculated without glycosylation) containing 733 amino acid residues.

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