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32-2217: CEL Native Protein

Alternative Name :	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.

Description

Source : Human breast milk. The Carboxyl Ester Lipase produced from Human breast milk has a molecular mass of 79.322kDa (calculated without glycosylation) containing 733 amino acid residues. 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 sequestrated within the Golgi compartment and is probably not secreted.

Product Info

Amount :	10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	CEL protein filtered (0.4µm) and lyophilized in 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl pH 7.4.
Storage condition :	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.
Amino Acid :	AKLGAVYTEG GFVEGVNKKL GLLGDSVDIF KGIPFAAPTK ALENPQPHPG WQGTLKAKNF KKRCLQATIT QDSTYGDEDC LYLNIWVPQG RKQVSRDLPV MIWIYGGAFL MGSGHGANFL NNYLYDGEEI ATRGNVIVVT FNYRVGPLGF LSTGDANLPG NYGLRDQHMA IAWVKRNIAA FGGDPNNITL FGESAGGASV SLQTLSPYNK GLIRRAISQS GVALSPWVIQ KNPLFWAKKV AEKVGCPVGD AARMAQCLKV TDPRALTLAY KVPLAGLEYP MLHYVGFVPV IDGDFIPADP INLYANAADI DYIAGTNNMD GHIFASIDMP AINKGNKKVT EEDFYKLVSE FTITKGLRGA KTTFDVYTES WAQDPSQENK KKTVVDFETD VLFLVPTEIA LAQHRANAKS AKTYAYLFSH 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.

Application Note

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.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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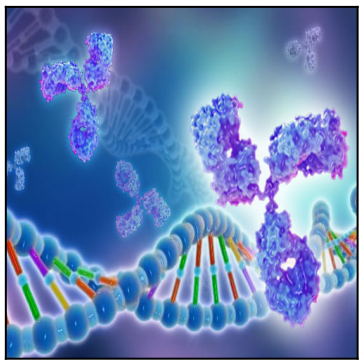

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