

Carboxyl Ester Lipase/CEL Active Protein | CEL active protein

Recombinant Carboxyl Ester Lipase/CEL

CATALOG # AAA48319	HOST Baculovirus	APPLICATIONS SDS-Page
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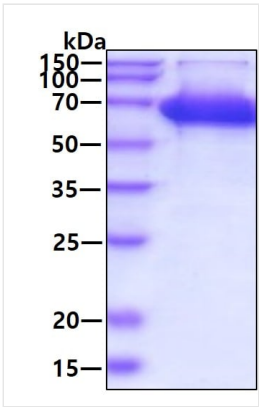
PRODUCT SYNONYMS

Carboxyl Ester Lipase/CEL; Recombinant Carboxyl Ester Lipase/CEL; Cel; 1810036E18Rik; BAL; BSSL; Carboxyl ester lipase; Cholesterol esterase; Pancreaticlysophospholipase; Sterol esterase; Lip1; Bile salt-activated lipase; Bile salt-stimulated lipase; CEL active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	> 90% by SDS - PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Concentration	0.5mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	21-599aa
Sequence	AKLGAVYTEG GFVEGVNKKL SLLGGDSVDI FKGIPFATAK TLENPQRHPG WQGTKATNF KKRC LQATIT QDNTYGQEDC LYLNIWVPQG RKQVSHNLPV MVWIYGG AFL MGSQG ANFL KNYLYDGEEI ATRGNVIVVT FNYRVGPLGF LSTGDANLPG NFGLRDQHMA IAWVKRNIAA FGGDPDNITI FGESAGAASV SLQTLSPYNK GLIRRAISQS GMALSPWAIQ KNPLFWAKTI AKKVGCP TED TGKMAAC LKI TDPRALT LAY KLPVKKQEYP VVHYLAFIPV IDGDFIPDDP INLYNNTADI DYIAGINNMD GHLFATIDVP AVDKTKQTVT EEDFYRLVSG HTVAKGLKGA QATFDIYTES WAQDPSQENM KKT VVAFETD VLFLIPTEIA LAQHKAHAKS AKTYSYLF SH PSRMP IYPKW MGADHADDLQ YVFGKPFATP LGYRPQDRAV SKAMIA YWTN FARSGDPNMG NSPVPTHWYP YTLNGNYLD ITKTITSASM KEHLREKFLK FWAVTFEVL P TVTGDQDTLT PPEDDSEVAP DPPSDDSQVV PVPPTDDSVE AQMPATIGF< HHHHHH>
Sequence Length	599
Applicable Applications for CEL active protein	Enzyme Activity, SDS-PAGE
Tag	His-Tag
Biological Activity	Specific activity is > 100,000 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 umole of p-nitrophenyl butyrate to p-nitrophenol per minute at pH 7.5 at 25C
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for CEL active protein	CEL, also known as bile salt-activated lipase, is one of the Type-B carboxyl esterase/lipase family of enzymes. It is an enzyme produced by the adult pancreas and aids in the digestion of fats. Also, it catalyzes fat and vitamin absorption and acts in concert with pancreatic lipase and colipase for the complete digestion of dietary triglycerides. This protein is highly expressed by pancreatic acinar cells and secreted into the gastrointestinal tract. Recombinant mouse CEL, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for CEL active protein	Cell Cycle
References	Xiao X., et al. (2016) J Biol Chem. 291:23224-23236.;; Shindo K., et al. (2017) Oncotarget. 8:50824-50831.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1046363
NCBI GeneID	12613
UniProt Accession #	Q64285
Molecular Weight	64.5kDa (585aa)
NCBI Official Full Name	cholesterol esterase
NCBI Official Synonym Full Names	carboxyl ester lipase
NCBI Official Symbol	Cel
NCBI Official Synonym Symbols	BAL; 1810036E18Rik
NCBI Protein Information	bile salt-activated lipase
UniProt Protein Name	Bile salt-activated lipase
UniProt Gene Name	Cel
UniProt Synonym Gene Names	Lip1; BAL; BSSL
UniProt Entry Name	CEL_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.