

Active Recombinant Full Length Mouse carboxyl ester lipase Protein, His Tagged

Cat. No. Cel-01MFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CEL (Full length, 1-599aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Baculovirus
ProteinLength	1-599aa
Description	Predicted to enable several functions, including carboxylic ester hydrolase activity; glycosphingolipid binding activity; and neurexin family protein binding activity. Acts upstream of or within ceramide catabolic process. Predicted to be located in several cellular components, including membrane raft; rough endoplasmic reticulum; and zymogen granule. Predicted to be part of protein-containing complex. Predicted to be active in cell surface and synapse. Predicted to be integral component of postsynaptic specialization membrane. Is expressed in several structures, including gut and mammary gland. Human ortholog(s) of this gene implicated in lipomatosis; maturity-onset diabetes of the young type 8; type 1 diabetes mellitus; and type 2 diabetes mellitus. Orthologous to human CEL (carboxyl ester lipase).
Tag	C-His
Form	Liquid

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Bio-activity	> 100,000 pmol/min/μg, and is defined as the amount of enzyme that hydrolyze 1.0 μmole of p-nitrophenyl butyrate to p-nitrophenol per minute at pH 7.5 at 25 centigrade.
Molecular Mass	64.5 kDa
AA Sequence	AKLGAVYTEGGFVEGVNKKLSLLGGDSVDIFKGIPFATAKTLENPQRHPGWQGTLKATNFKKRCLQATITQDNTYGQEDCLYLNIVWPQGRKQVSHNLPVMVWIYGGAFMLMGS GQGANFLKNYLYDGEEIATRGNVIVVTFNYRVGPLGFLSTGDANLPGNFGLRDQHM AIAWVKRNIAAFGGDPDNITIFGESAGAASVSLQTLSPYNKGLIRRAISQSGMALSPW AIQKNPLFWAKTIKKVGCPTEDTGKMAACLKITDPRALTLAYKLPVKKQEYPVVHYL AFIPVIDGDFIPDDPINLYNNTADIDYIAGINNMDGHLFATIDVPAVDKTKQTVTEEDFY RLVSGHTVAKGLKGAQATFDIYTESWAQDPSQENMKKTVAFETDVLFLIPTEIALAQ HKAHAKSAKTYSYLFSHPSRMPIYPKWMGADHADDLQYVFGKPFATPLGYRPQDR AVSKAMIAYWTNFARSGDPNMGNPVPHTWYPYTLNGNYLDITKTITSASMKEHL REKFLKFWAVTFEVLPTVTGDQDTLTPPEDDSEVAPDPPSDDSQVVPVPPTDDSV AQMPATIGF
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
References	1. Xiao X., et al. (2016) J Biol Chem. 291:23224-23236. 2. Shindo K., et al. (2017) Oncotarget. 8:50824-50831.

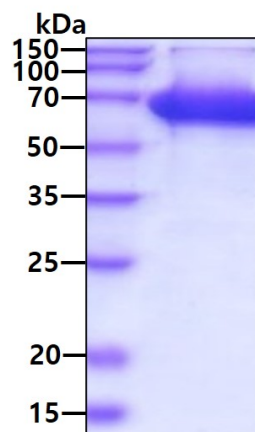
GENE INFORMATION

Gene Name	Cel carboxyl ester lipase [Mus musculus (house mouse)]
Official Symbol	Cel
Synonyms	Cel; carboxyl ester lipase; BAL; BSSL; 1810036E18Rik; bile salt-activated lipase; bile salt-stimulated lipase; cholesterol esterase; pancreatic lysophospholipase; sterol esterase; EC 3.1.1.13; EC 3.1.1.3; EC 3.1.1.6
Gene ID	12613
mRNA Refseq	NM_009885
Protein Refseq	NP_034015
UniProt ID	Q64285

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SDS-PAGE

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

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