

Carboxyl Ester Lipase/CEL Protein, Mouse (sf9, His)

Cat. No.:	HY-P74352
Synonyms:	Bile salt-activated lipase; BAL; BSSL; Cel; Lip1
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q64285 (M1-L534)
Gene ID:	12613
Molecular Weight:	Approximately 133.9&59.1 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Carboxyl Ester Lipase (CEL) is an enzyme that catalyzes the hydrolysis of a diverse range of substrates, including cholesteryl esters, phospholipids, lysophospholipids, di- and tri-acylglycerols, and fatty acid esters of hydroxy fatty acids (FAHFAs). CEL exhibits a preference for FAHFAs with the ester bond positioned further away from the carboxylate group, and it hydrolyzes unsaturated FAHFAs more rapidly than saturated ones. This enzymatic activity is essential for the complete digestion of dietary lipids in the gastrointestinal tract and facilitates the absorption of fat-soluble vitamins. CEL's role in lipid metabolism underscores its significance in the overall process of nutrient absorption and highlights its importance in maintaining lipid homeostasis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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