

Native Pseudomonas sp. Lipoprotein lipase

Product Information

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| Cat# | DIA-210 |
| Similar | LPL |
| Source | Pseudomonas sp. |
| Description | Lipoprotein lipase (LPL) (EC 3.1.1.34) is a member of the lipase gene family, which includes pancreatic lipase, hepatic lipase, and endothelial lipase. It is a water soluble enzyme that hydrolyzes triglycerides in lipoproteins, such as those found in chylomicrons and very low-density lipoproteins (VLDL), into two free fatty acids and one monoacylglycerol molecule. It is also involved in promoting the cellular uptake of chylomicron remnants, cholesterol-rich lipoproteins, and free fatty acids. LPL requires ApoC-II as a cofactor. |
| Activity | Gradelll 20U/mg-solid or more (containing approx. 80% of stabilizers) |
| CAS No. | 9004-02-8 |
| Isoelectric point | 5.95±0.05 |
| Synonyms | Lipoprotein lipase; LPL; EC 3.1.1.34; Clearing factor lipase; Diacylglycerol lipase; Diglyceride lipase |
| Enzyme Commission Number | EC 3.1.1.34 |
| pH Stability | pH 7.0-9.0 (25°C, 20hr) |
| Optimum pH | 7.0-9.0 |
| Optimum temperature | 45-50°C |
| Thermal stability | below 55°C (pH 7.0, 10min) |
| Stability | Stable at-20°C for at least one year |
| Stabilizers | Mg??, Na-cholate, bovine serum albumin |



Creative Enzymes

Diagnostic Enzymes

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| Inhibitors | Hg ²⁺ , Ag ⁺ , ionic detergents |
| Contaminants | Phosphatase < 1.0×10 ⁻³ % Catalase < 2.0×10 ⁻² % NADH oxidase< 1.0×10 ⁻³ % Cholesterol oxidase < 2.0×10 ⁻³ % |
| Abbr | LPL (Pseudomonas sp.) |
| Alias | LPL |
| Applications | This enzyme is useful for enzymatic determination of triglyceride in serum when coupled with L- α -glycerophosphate oxidase and glycerol kinase. Usually, the reaction can be completed in 5 minutes at 37°C by using 2.5~3.0 units of the enzyme per test (3.0ml) at pH around 7.0. |
| Appearance | Light brown amorphous powder, lyophilized |
| Molecular Weight | approx. 134 kDa |