

## Lipoprotein lipase

## Chemical Properties

CAS No. : 9004-02-8

Formula:

Molecular Weight:

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Lipoprotein lipase (LPL) is an enzyme, mainly involved in lipid metabolism, that hydrolyzes triglycerides in lipoproteins. LPL can be a target for obesity/diabetes-related cardiovascular diseases and has an important role in lowering triglyceride levels and improving cardiovascular.
Targets(IC50)	Endogenous Metabolite
In vitro	Using mouse/human macrophage cell lines (e.g., RAW264.7, THP-1), lipoprotein lipase (Lipoprotein lipase) was added, and combined with flow cytometry, immunofluorescence, and fluorescence-labeled lipid detection. The <b>Results</b> showed that lipoprotein lipase significantly induced macrophages to polarize towards the M2 phenotype (anti-inflammatory). M2 markers (such as CD206 and CD163) were highly expressed in lipoprotein lipase-treated macrophages, and these cells also demonstrated a significantly enhanced ability to uptake fluorescence-labeled lipids[1].

## Solubility Information

Solubility	H2O: 20 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Basu D, et al. Regulation of lipoprotein lipase-mediated lipolysis of triglycerides. *Curr Opin Lipidol.* 2020 Jun;31(3): 154-160.

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