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脂代谢检测试剂盒



北京普利莱基因技术有限公司
BEI JING APPLYGEN TECHNOLOGIES CO., LTD.
地址: 北京市昌平区振兴路36号院2号楼330
电话: 010-62053186 网址: www.applygen.com

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COMPANY PROFILE

公司简介

北京普利莱基因技术有限公司于2004年成立，由留美归国人员创建，先后获得北京市高新技术企业、国家高新技术企业称号和证书，致力于研发生产具有自主知识产权、用于生物医学实验研究的各种工具试剂。

经过二十多年的积累和技术攻关，相继推出具有数百种自主知识产权的科研试剂，产品范围涵盖蛋白质组学、细胞生物学、分子生物学、生物化学、免疫学和实验医学等各类研究领域。建立了基因检测、蛋白印迹、免疫组化、基因克隆与表达、抗体制备和各类生化指标检测服务平台，已成为中国科研工作者信赖的、对生命科学研究起到推动作用的高端国产试剂生物技术公司。

发表文章

累计超过10万篇 SCI 论文引用!



脂质是细胞中的重要组分，包括脂肪、油、类固醇等，它们不仅是生物体重要的能量储备物质，还承担细胞结构、信号传递等多重功能。脂质代谢失调与多种疾病的发生发展密切相关，如肥胖、糖尿病、心血管疾病。

定量检测血液和组织细胞中甘油、甘油三酯、游离脂肪酸、胆固醇等含量，是临床、临床基础、基础医学生物学研究常用的生化指标。普利莱脂代谢检测试剂盒针对脂代谢科研究常用指标和操作难点开发了一些列试剂盒，助力发表SCI文章3000多篇。

试剂盒特点

- 特异性强，稳定性好，试剂盒批间和批次内差异小
- 适用于各类样本：植物、昆虫、酵母、动物组织、细胞、血清、细胞培养上清等
- 独家配方，针对实体组织细胞配备高效脂质提取试剂，操作简单，结果可重复
- 试剂盒灵敏度高，线性范围广，适用于微量样本
- 常规实验操作，酶标仪即可检测
- 节省样本，实体组织细胞进行多个指标检测，只需一份样本

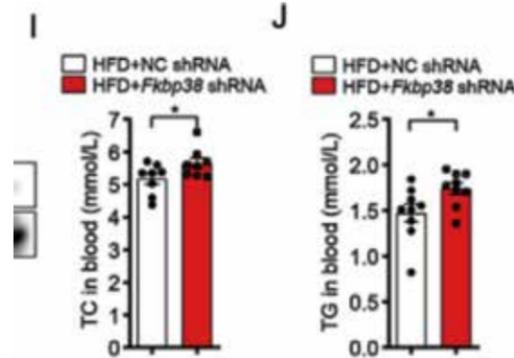
甘油三酯含量测定

货号	产品名称	规格
E1003-125	液体样本甘油三酯 (TG) 含量酶法测定试剂盒	125 次
E1003-250	液体样本甘油三酯 (TG) 含量酶法测定试剂盒	250 次
E1013-50	组织细胞甘油三酯 (TG) 含量酶法测定试剂盒	50 次
E1013-105	组织细胞甘油三酯 (TG) 含量酶法测定试剂盒	105 次
E1013-200	组织细胞甘油三酯 (TG) 含量酶法测定试剂盒	200 次
E1025-105	肝脏、脂肪样本甘油三酯 (TG) 含量酶法测定试剂盒	105 次
E1014-50	油脂食品甘油三酯 (TG) 含量酶法测定试剂盒	50 次
E1014-105	油脂食品甘油三酯 (TG) 含量酶法测定试剂盒	105 次

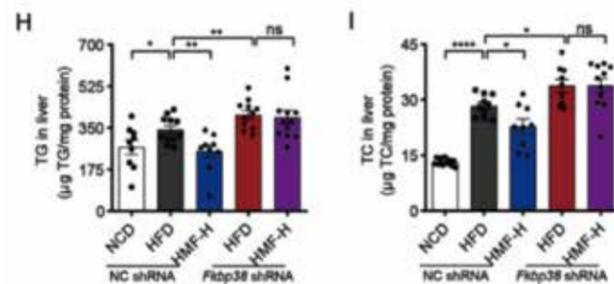
试剂盒采用经典 GPO Trinder 酶学反应测定甘油三酯含量，该方法符合世界卫生组织 (WHO)、美国FDA、中国《全国临床检验操作规程》规定的甘油三酯临床检验标准，适用于测定血清、血浆特别是组织细胞中的甘油三酯含量。

与血浆甘油三酯测定相比，实体组织和细胞的甘油三酯测定并非易事。本试剂盒避免了有毒的氯仿甲醇提取、繁杂的氮气吹干和脂质复溶等步骤，采用高效能试剂进行组织细胞裂解和甘油三酯抽提，而且优化了 GPO Trinder 酶学反应组分和操作步骤。简单易行、灵敏度高，检测范围为20-2000 $\mu\text{mol/L}$ ，可用于测量动植物组织细胞样品中的甘油三酯含量。

使用普利莱甘油三酯含量测定试剂盒发表文章结果展示：

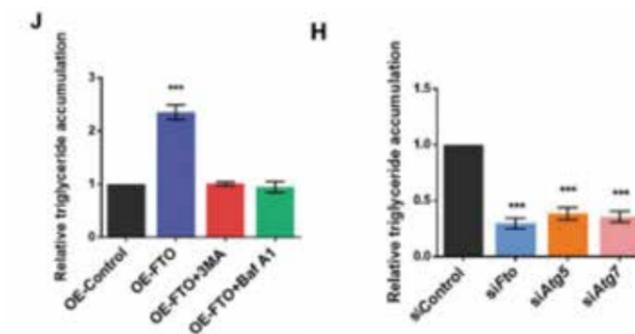


文献来源：lncRNA HITT inhibits lactate production by repressing PKM2 oligomerization to reduce tumor growth and macrophage polarization[J]. Research, 2022. IF:11



Total triglycerides (H) and total cholesterol (I) in liver, n Z 9e11/group

文献来源：Discovery of a potent FKBP38 agonist that ameliorates HFD-induced hyperlipidemia via mTOR/P70S6K/SREBPs pathway[J]. Acta Pharmaceutica Sinica B, 2021. IF:14.9



文献来源：m6A mRNA methylation controls autophagy and adipogenesis by targeting Atg5 and Atg7[J]. Autophagy, 2020. IF:13.4

甘油含量测定

货号	产品名称	规格
E1012-50	组织细胞甘油含量酶法测定试剂盒	50 次
E1012-105	组织细胞甘油含量酶法测定试剂盒	105 次
E1024-105	肝脏、脂肪样本甘油酶法测定试剂盒	105 次
E1002-125	液体样本甘油含量酶法测定试剂盒	125 次
E1002-250	液体样本甘油含量酶法测定试剂盒	250 次

甘油含量是甘油三酯水解反应的可靠检测指标。试剂盒采用经典 GPO Trinder 酶学反应，通过比色测定样品甘油含量。经过优化使得操作简单，检测灵敏度高，可靠性和重复性俱佳，并且符合临床检验标准。检测范围 8~1200 $\mu\text{mol/L}$ 。

所需设备：可见分光光度计、酶标仪，工作波长 480-550nm 之间。

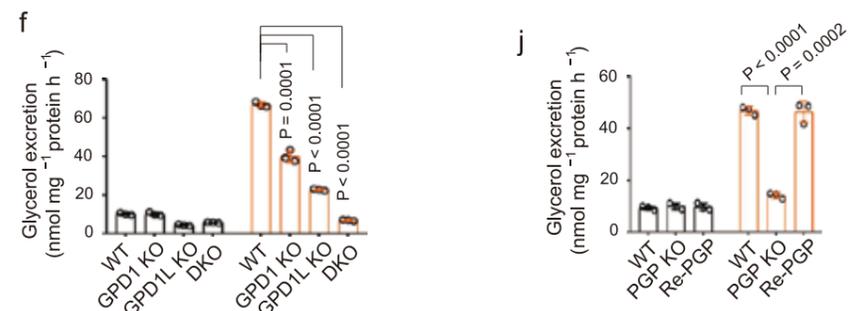
测定原理：在 ATP 存在下，甘油被甘油激酶磷酸化为 3-磷酸甘油，再被甘油磷酸氧化酶氧化。反应产生过氧化氢在过氧化物酶作用下，将主色底物转化为苯醌亚胺，吸收峰在 500nm，在 480-550nm 波长光密度值最大并与甘油浓度成正比。



操作步骤

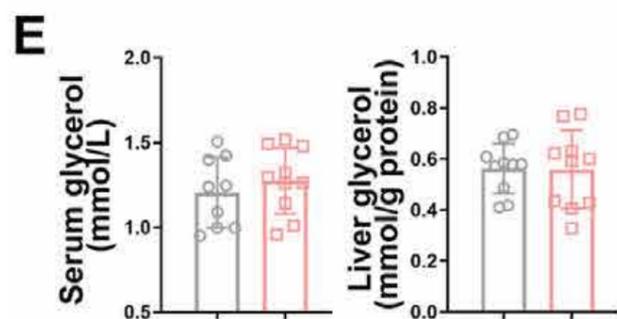
- 1、样本处理：组织细胞样本配备高效能提取试剂，操作简单
- 2、标准品稀释和工作液配制
- 3、甘油含量测定：将工作液和样本混匀后，用酶标仪读取溶液 OD 值（550nm）
- 4、数据处理：绘制标准曲线，计算样本甘油含量

使用普利莱甘油含量测定试剂盒发表文章结果展示:



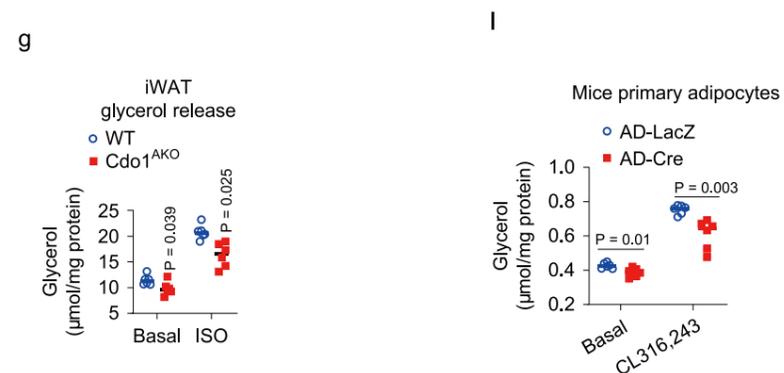
f, Effects of GPD1 and/or GPD1L KO on glycerol excretion j, Effects of PGP KO and PGP re-expression on glycerol excretion

文献来源: Zhai, X., Yang, R., Chu, Q. et al. AMPK-regulated glycerol excretion maintains metabolic crosstalk between reductive and energetic stress. Nat Cell Biol 27, 141–153 (2025). IF:19.1



Glycerol in serum and liver from 8-week-old mice (n = 10)

文献来源: Na S, Fan Y, Chen H L, et al. PPARα affects hepatic lipid homeostasis by perturbing necroptosis signals in the intestinal epithelium[J]. Acta Pharmaceutica Sinica B, 2024, 14(11). IF:14.7



g, Glycerol release in mice iWAT under basal or isoproterenol (ISO) (1 μM) stimulated conditions (n = 6 mice)

i, Glycerol release in primary adipocytes (n = 6 biological replicates)

文献来源: Guo Y Y, Li B Y, Xiao G, et al. Cdo1 promotes PPARγ-mediated adipose tissue lipolysis in male mice[J]. Nature Metabolism, 2022, 4(10): 1352-1368 IF:19.9

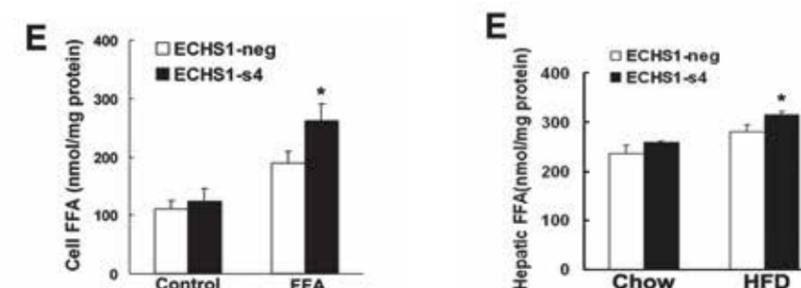
游离脂肪酸含量测定

货号	产品名称	规格
E1001-50	游离脂肪酸FFA含量测定试剂盒	50次
E1001-105	游离脂肪酸FFA含量测定试剂盒	105次
E1001-200	游离脂肪酸FFA含量测定试剂盒	200次

游离脂肪酸(free fatty acids, FFA)通常指10碳以上的非酯化脂肪酸(nonesterified fatty acid, NFFA)。目前有关游离脂肪酸的研究日益增多,其参与机体能量代谢,也与肥胖、高脂血症、糖尿病等多种病理进程相关,与甘油三酯、胆固醇一样,均是临床和基础研究常用的检测指标。另外游离脂肪酸检测也常见于农业和轻工业等领域。

目前常见的游离脂肪酸测定有滴定法、原子分光光度法、高压液相层析法、酶法和比色法等,普利莱游离脂肪酸FFA含量测定试剂盒采用比色法,经过优化升级,可高效、高通量检测各类样本,同时采用高效能试剂,线性范围宽(10-1000 μmol/L),无需特殊仪器,操作简单省时,1h内即可完成测定。

使用普利莱游离脂肪酸含量测定试剂盒发表文章结果展示:



左: SiRNA-mediated knockdown of ECHS1 increased lipid accumulation in AML12 cells. FFA (E) level induced by FFA overload.

右: Silencing ECHS1 expression in vivo exacerbated hepatic steatosis induced by the HFD. FFA (E) content in mice treated with HFD, under basal conditions or CL316,243 (1 μM) stimulation

文献来源: Zhang X, Yang J, Guo Y, et al. Functional proteomic analysis of nonalcoholic fatty liver disease in rat models: enoyl-coenzyme a hydratase down-regulation exacerbates hepatic steatosis[J]. Hepatology, 2010, 51(4): 1190-1199. IF: 10.84

胆固醇含量测定

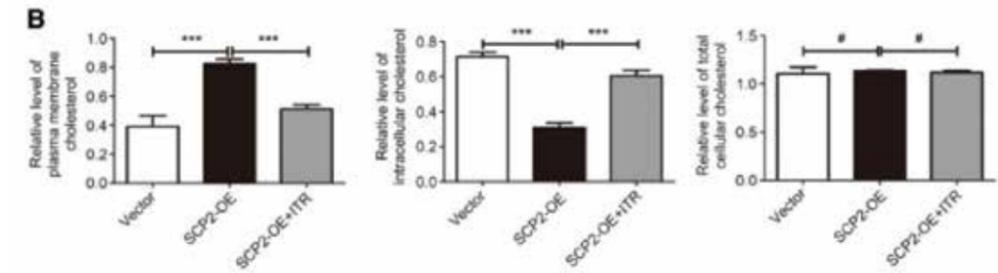
货号	产品名称	规格
E1005-125	液体样本总胆固醇 (TC) 含量酶法测定试剂盒	125 次
E1005-250	液体样本总胆固醇 (TC) 含量酶法测定试剂盒	250 次
E1015-50	组织细胞总胆固醇 (TC) 含量酶法测定试剂盒	50 次
E1015-105	组织细胞总胆固醇 (TC) 含量酶法测定试剂盒	105 次
E1015-200	组织细胞总胆固醇 (TC) 含量酶法测定试剂盒	200 次
E1026-105	肝脏、脂肪样本总胆固醇 (TC) 含量酶法测定试剂盒	105 次
E1006-125	液体样本游离胆固醇 (FC) 含量酶法测定试剂盒	125 次
E1006-250	液体样本游离胆固醇 (FC) 含量酶法测定试剂盒	250 次
E1016-50	组织细胞游离胆固醇 (FC) 含量酶法测定试剂盒	50 次
E1016-105	组织细胞游离胆固醇 (FC) 含量酶法测定试剂盒	105 次
E1016-200	组织细胞游离胆固醇 (FC) 含量酶法测定试剂盒	200 次
E1027-105	肝脏、脂肪样本游离胆固醇 (FC) 含量酶法测定试剂盒	105 次
E1021	液体样本胆固醇酯 (CE) 含量检测试剂盒	50 次
E1022	组织细胞胆固醇酯 (CE) 含量检测试剂盒	50 次
E1017	血液高密度脂蛋白胆固醇 (HDL-C) 酶法测定试剂盒	250 次
E1018	血液低密度脂蛋白/极低密度脂蛋白-胆固醇 (LDL/VLDL-C) 酶法测定试剂盒	250 次

总胆固醇包括游离胆固醇及胆固醇酯两种形式。胆固醇是血脂的重要组成成分，血浆总胆固醇包括 2/3 的胆固醇酯和 1/3 的游离胆固醇，其浓度增加与心脑血管疾病以及多种病理状态密切相关。在实体组织和细胞内，胆固醇酯既是构成细胞质膜的成分，也是细胞内脂滴的主要组分。细胞内胆固醇过度聚集与动脉粥样硬化泡沫细胞形成密切相关。

普利莱胆固醇含量检测试剂盒采用世界卫生组织 (WHO)、美国 FDA、中国《全国临床检验操作规程》规定的总胆固醇和游离胆固醇检测方法，检测灵敏度高，可靠性和重复性俱佳。需要特别强调的是：

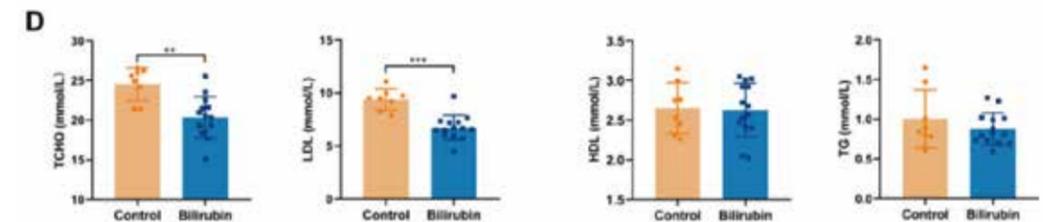
实体组织和细胞的胆固醇测定远比血液胆固醇测定复杂。试剂盒避免了有毒的有机溶剂抽提、繁杂的氮气吹干和脂质复溶等步骤，采用高效能试剂裂解细胞和提取胆固醇，优化了酶学反应和操作步骤，简单易行，灵敏度高，线性范围 20~5000 μ mol/L。

使用普利莱胆固醇含量测定试剂盒发表文章结果展示：

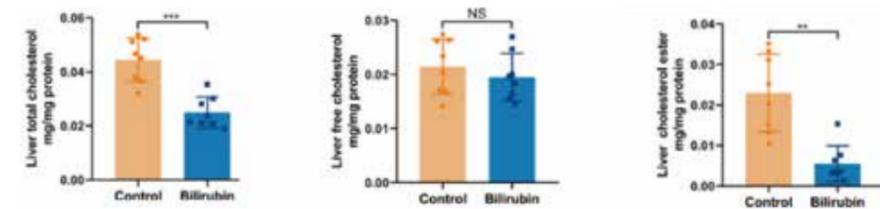


SCP2-OE GH3 cells were incubated with 10 μ M itraconazole (ITR) for 48 h. Total cellular cholesterol content was measured using the Cholesterol Assay Kit. Plasma membrane and intracellular cholesterol levels were quantified using the cholesterol oxidation-based method (n = 12, \pm SEM).

文献来源：SCP2-mediated cholesterol membrane trafficking promotes the growth of pituitary adenomas via Hedgehog signaling activation[J]. Journal of Experimental & Clinical Cancer Research, 2019. IF:12.7



peripheral blood plasma was collected and the levels of total cholesterol (TCHO), low-density lipoprotein cholesterol (LDL), high-density lipoprotein cholesterol (HDL), and total triglyceride (TG) were measured.



The amount of total cholesterol and free cholesterol in liver lysates was measured. Cholesteryl esters were calculated by subtracting the free cholesterol values from the total cholesterol value. Error bars represent mean \pm SD. n (control)=8, n (bilirubin)=14. *P<0.05,

文献来源：Bilirubin ameliorates murine atherosclerosis through inhibiting cholesterol synthesis and reshaping the immune system[J]. Journal of translational medicine, 2022. IF:8.4

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