abcam

Product datasheet

Lipolysis Assay Kit (Colorimetric) ab185433

★★★★★ 1 Abreviews 14 References 2 Images

Overview

Product name Lipolysis Assay Kit (Colorimetric)

Detection method Colorimetric

Sample type Cell culture supernatant

Assay type Quantitative

Sensitivity < 0.2 nmol/well

Range 2 nmol/well - 10 nmol/well

Assay time 0h 40m

Species reactivity Reacts with: Mammals, Other species

Product overview Abcam's Lipolysis Assay Kit (Colorimetric) (ab185433) is simple and easy-to-use. The assay

measures glycerol released from 3T3-L1 cells after induction of lipolysis using colorimetric method. The color intensity is directly proportional to the amount of glycerol. This assay kit can

detect less than 200 pmol of glycerol.

Lipolysis assay protocol summary:

- add samples and standards to wells
- add reaction mix
- incubate for 30 min
- analyze with microplate reader

Notes This product is manufactured by BioVision, an Abcam company and was previously called K577

Lipolysis (3T3-L1) Colorimetric Assay Kit. K577-100 is the same size as the 100 test size of

ab185433.

Lipolysis is the hydrolysis of triglycerides within the cell into glycerol and free fatty acids. The

glycerol and free fatty acids are then released into the bloodstream or culture media. Lipolysis occurs in essentially all cells, but is most abundant in white and brown adipose tissue.

Deficiencies in lipolysis lead to increased intracellular lipid accumulation, resulting in abnormal

cellular physiology, hyperlipidemia, and insulin resistance. Lipolysis can be induced by catecholamine and certain hormones. The kit includes synthetic catecholamine, Isoproterenol,

hormone-sensitive lipase, which hydrolyzes the triglycerides. This pathway can be inhibited by

which activates β -adrenergic receptors. This leads to activation of adenylate cyclase, which catalyzes the conversion of ATP to cAMP. cAMP then serves as a second messenger to activate

insulin.

Platform Microplate reader

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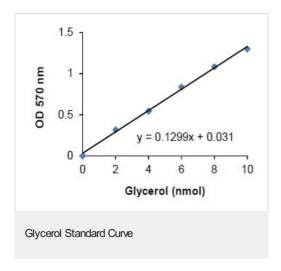
Properties

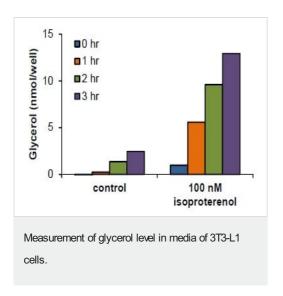
Storage instructions

Store at -20°C. Please refer to protocols.

Components	100 tests
Assay Buffer V	1 x 25ml
Enzyme Mix VI	1 vial
Glycerol Standard	1 x 0.2ml
Isoproterenol	1 x 50µl
Buffer IV	1 x 17ml
Wash Buffer VIII	1 x 22ml
OxiRed Probe	1 x 0.2ml

Images





50 μ l of 3T3-L1 cells treated with vehicle control (H₂O) or 100 nM lsoproterenol for 0-3 hours.

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