abcam

Product datasheet

Fumarate Assay Kit ab102516

★★★★☆ 1 Abreviews 18 References 5 图像

Acres	- In
MH.	7/15
TVV	70

产品名称 Fumarate Assay试剂盒

检测方法 Colorimetric

样品类型 Cell culture supernatant, Urine, Serum, Plasma, Other biological fluids, Tissue Extracts

检测类型 Quantitative

灵敏度 > 1 nmol/well

检测时间 0h 40m

产品概述 Fumarate Assay Kit ab102516 provides a convenient tool for sensitive detection of Fumarate in

biological samples.

In the fumarate assay protocol, the fumarate enzyme mix recognizes fumarate as a specific substrate leading to proportional color development. The amount of fumarate can therefore be easily quantified using a colorimetric assay (λ = 450 nm). It can detect as low as 1 nmol of fumarate per well (20 μ M).

Fumurate assay protocol summary:

- add samples and standards to wells

- add reaction mix and incubate for 1 hr

- analyze with a microplate reader

说**明** This product is manufactured by BioVision, an Abcam company and was previously called K633

Fumarate Colorimetric Assay Kit. K633-100 is the same size as the 100 test size of ab102516.

Fumarate (HO2CCH=CHCO2H-) is an intermediate in the Kreb's cycle used by cells to

metabolize food to form ATP. In the mammalian liver, Fumarate is also a product of the Urea cycle where its release in the cytosol leads to its conversion into malate and subsequently oxaloacetate

while generating NADH in the cytosol.

平台 Microplate reader

性能

存放说明 Store at -20°C. Please refer to protocols.

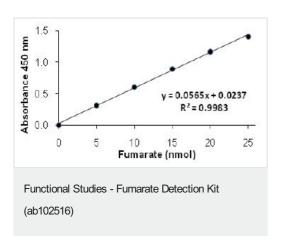
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组 件	100 tests
Assay Buffer LXIV	1 x 25ml
Developer Solution III	1 vial
Fumarate Enzyme Mix	1 vial
Fumarate Solution	1 x 0.2ml

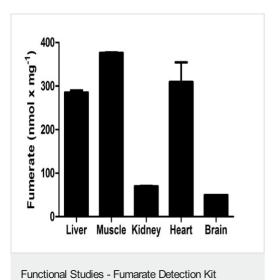
相关性

Fumarate (HO₂CCH=CHCO₂H⁻) is an intermediate in the Kreb's cycle used by cells to metabolize food to form ATP. In the mammalian liver, Fumarate is also a product of the Urea cycle where its release in the cytosol leads to its conversion into malate and subsequently oxaloacetate while generating NADH in the cytosol. The human skin naturally produces fumaric acid when exposed to sunlight. In fact, fumaric acid esters have been used to treat psoriasis, possibly due to an impaired production of fumaric acid in the skin. Fumaric acid has also been used in beverages, baking powders and candy.

图片

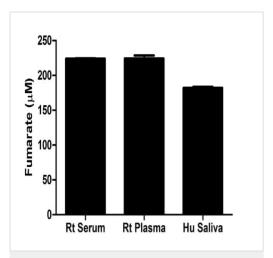


Fumurate Standard Curve

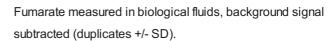


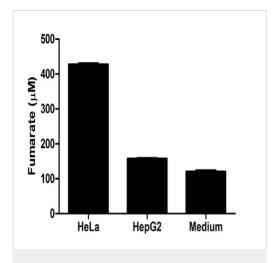
(ab102516)

Fumarate measured in mouse tissue lysates (mg of extracted protein), background signal subtracted (duplicates +/- SD).

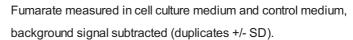


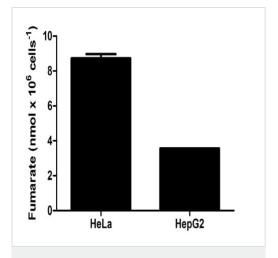
Functional Studies - Fumarate Detection Kit (ab102516)





Functional Studies - Fumarate Detection Kit (ab102516)





Functional Studies - Fumarate Detection Kit (ab102516)

Furnarate measured in cell lysates, background signal subtracted (duplicates +/- SD).

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