

General Succinate Dehydrogenase Assay Kit | LOC100736507 assay kit

Succinate Dehydrogenase Microplate Assay Kit

CATALOG # AAA27836	REACTIVITY General	APPLICATIONS Functional Assay
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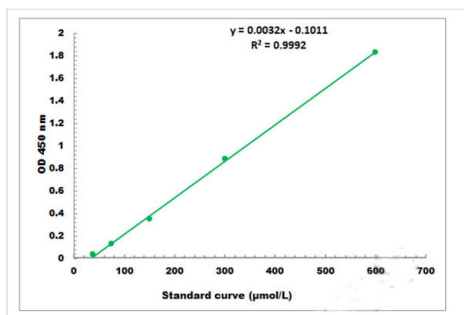
PRODUCT SYNONYMS

Succinate Dehydrogenase; Succinate Dehydrogenase Microplate Assay Kit; EC 1.3.5.1; Succinate dehydrogenase; Succinic dehydrogenase; LOC100736507 assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	274
Samples	Urine, Serum, Plasma, Tissue extracts, Cell lysate, Cell culture media and Other biological fluids Samples
Detection Range	30 umol/L - 600 umol/L
Applicable Applications for LOC100736507 assay kit	FA (Functional Assay)
Preparation and Storage	Shipped and store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LOC100736507 assay kit

Background: Succinate Dehydrogenase (SDH) (EC 1.3.5.1) or succinate-coenzyme Q reductase (SQR) or respiratory complex II is an enzyme complex, which is bound to the inner mitochondrial membrane. SDH participates in both the citric acid cycle and electron transport chain. In mammals and many bacteria, SDH consists of 2 hydrophilic subunits, SDHA (flavoprotein) and SDHB (iron-sulfur protein) and 2 hydrophobic membrane anchor subunits: SDHC and SDHD. SDH oxidizes succinate to fumarate and transfers the electrons to ubiquinone. SDH deficiency in humans leads to a variety of phenotypes including Leigh syndrome, a neurometabolic disorder, tumor formation, and myopathy. Recent studies show that SDH can prevent the generation of ROS (reactive oxygen species); therefore, measurement of succinate dehydrogenase activity has wide applications. Succinate Dehydrogenase Activity Microplate Assay Kit provides a simple and direct procedure for measuring succinate dehydrogenase activity levels in a variety of samples. The assay is initiated with the enzymatic hydrolysis of Succinic acid by SDH. The enzyme catalysed reaction products can be measured at a colorimetric readout at 450 nm.

NCBI AND UNIPROT INFORMATION

NCBI GI #	350539996
NCBI GeneID	100736507
NCBI Accession #	NP_001234860.1
NCBI GenBank Nucleotide #	NM_001247931.3
NCBI Official Full Name	succinate dehydrogenase
NCBI Official Symbol	LOC100736507
NCBI Protein Information	succinate dehydrogenase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/general-assay-kits/succinate-dehydrogenase/27836>