

Transhydrogenase-1 (TH-1) Assay Kit | TH-1 assay kit

Micro Mitochondrial Transhydrogenase-1 (TH-1) Activity Assay Kit

CATALOG #
AAA332686

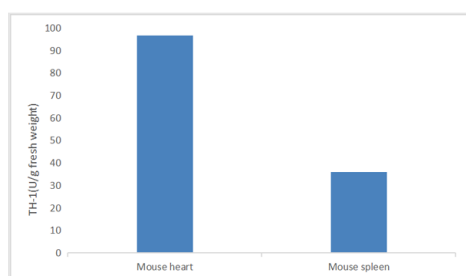
PRODUCT SYNONYMS

Transhydrogenase-1 (TH-1); Micro Mitochondrial Transhydrogenase-1 (TH-1) Activity Assay Kit; Micro Mitochondrial Transhydrogenase-1 (TH-1); TH-1 assay kit

PRODUCT SPECIFICATIONS

Samples	Animal and plant tissues
Kit Components	Reagent I Reagent II Reagent III Reagent IV Reagent V
Features & Benefits	The verified samples are complete in type and easy to operate.
Usage Notes	If not assayed immediately, samples can be stored at -80 degree C for one month. It is recommended to perform several dilutions of your sample to ensure the readings are within the standard value range. Fresh samples are necessary for good results. If don't perform the assay at the same time, it's better to complete the Sample Preparation step before storing the samples.
Preparation and Storage	Storage at -20 degree C and Keep from light immediately upon receipt. Kit has a storage time of 6 months from receipt. Refer to list of materials supplied for storage conditions of individual components. Shipping: Gel pack with blue ice.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for TH-1 assay kit	Transhydrogenase (TH) is located in the inner membrane of mitochondria, also as known as Mitochondrial Respiratory ChainComplex VI. The enzyme catalyzes the mutual conversion of NADH+NADP+ and NAD++NADPH, and regulate the balancebetween NAD(H) and NADP(H) in mitochondria. The forward reaction is called TH-1. The increase of mitochondrial NADHcontent will lead to the increase of H+ electrochemical gradient of mitochondrial membrane, thus promoting the production ofROS on the electron transport chain. TH-1 promotes the conversion of NADH to NADPH, thus improving the antioxidant capacityof mitochondria. TM Micro Mitochondrial Transhydrogenase-1 (TH-1) Activity Assay Kit can be used to detect biologicalsamples such as animal and plant tissues. Both NADH and NADPH have characteristic absorption peak at 340 nm, therefore, thehydrogen transfer reaction catalyzed by TH cannot has a absorbance change at 340 nm. Replaces NADP+ with 3-acetylpyridyladenine dinucleotide (APADP+, synthetic substrate), TH-1 can catalyzes APADP+reduction to APADPH and the reaction producthas a characteristic absorption peak at 375 nm. In this kit, the TH-1 activity is quantified by measuring the rate of increase in lightabsorption at 375 nm.
Product Categories/Family for TH-1 assay kit	Cell analysis; Cell metabolism detection kit

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/assay-kits/transhydrogenase-1-th-1/332686>