

General Isocitrate Dehydrogenase Assay Kit | IDH assay kit

Isocitrate Dehydrogenase Microplate Assay Kit

CATALOG # AAA263951	REACTIVITY General	APPLICATIONS Functional Assay
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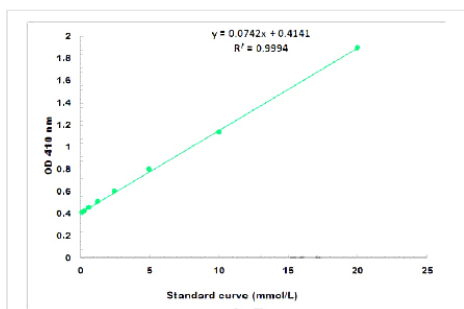
PRODUCT SYNONYMS

Isocitrate Dehydrogenase; Isocitrate Dehydrogenase Microplate Assay Kit; EC 1.1.1.42; EC 1.1.1.41; oxalosuccinate decarboxylase; isocitrate dehydrogenase (NADP); oxalosuccinic decarboxylase; isocitrate (NADP) dehydrogenase; isocitrate (nicotinamide adenine dinucleotide phosphate) dehydrogenase; NADP-specific isocitrate dehydrogenase; NADP-linked isocitrate dehydrogenase; NADP-dependent isocitrate dehydrogenase; NADP isocitric dehydrogenase; isocitrate dehydrogenase (NADP-dependent); NADP-dependent isocitric dehydrogenase; triphosphopyridine nucleotide-linked isocitrate dehydrogenase-oxalosuccinate carboxylase; NADP+-linked isocitrate dehydrogenase; IDH (ambiguous); dual-cofactor-specific isocitrate dehydrogenase; NADP+-ICDH; NADP+-IDH; IDP; IDP1; IDP2; IDP3; IDH assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	416
Applicable Applications for IDH assay kit	FA (Functional Assay)
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IDH assay kit

Background/Introduction: Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15221788
NCBI GeneID	841875
NCBI GenBank Nucleotide #	NP_175836.1
UniProt Accession #	Q9SLK0
NCBI Official Full Name	isocitrate dehydrogenase
NCBI Official Symbol	ICDH
NCBI Official Synonym Symbols	F20D21.16; F20D21_16; isocitrate dehydrogenase
NCBI Protein Information	isocitrate dehydrogenase
UniProt Protein Name	Peroxisomal isocitrate dehydrogenase [NADP]
UniProt Gene Name	ICDH
UniProt Entry Name	ICDHX_ARATH

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/idh-general-assay-kits/isocitrate-dehydrogenase/263951>