

Product datasheet

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ARG82035 Isocitrate Dehydrogenase Assay Kit

Package: 96 wells Store at: 4°C, -20°C

Summary

Product Description ARG82035 Isocitrate Dehydrogenase Assay Kit is a detection kit for the quantification of Isocitrate

Dehydrogenase Activity in tissue extracts, cell lysate and cell culture supernatants.

Tested Reactivity All

Tested Application FuncSt

Target Name Isocitrate Dehydrogenase

Conjugation Note Read at 410 nm.

Sensitivity 0.2 mmol/l

Detection Range 0.2 - 20 mmol/l

Sample Type Tissue extracts, cell lysate and cell culture supernatants.

Sample Volume $$10~\mu l$$

Alternate Names IDPC; EC 1.1.1.42; Cytosolic NADP-isocitrate dehydrogenase; IDP; HEL-S-26; HEL-216; Isocitrate

dehydrogenase [NADP] cytoplasmic; IDH; PICD; IDCD; NADP; Oxalosuccinate decarboxylase

Application Instructions

Assay Time 40 min

Properties

Form 96 well

Storage instruction Store components at 4°C or -20°C. Keep microplate wells sealed in a dry bag with desiccants. Do not

expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product

user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol IDH1

Gene Full Name isocitrate dehydrogenase 1 (NADP+), soluble

Background Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These

enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each

NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the

NADP(+)-dependent isocitrate dehydrogenase found in the cytoplasm and peroxisomes. It contains the PTS-1 peroxisomal targeting signal sequence. The presence of this enzyme in peroxisomes suggests roles in the regeneration of NADPH for intraperoxisomal reductions, such as the conversion of 2, 4-dienoyl-CoAs to 3-enoyl-CoAs, as well as in peroxisomal reactions that consume 2-oxoglutarate,

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namely the alpha-hydroxylation of phytanic acid. The cytoplasmic enzyme serves a significant role in cytoplasmic NADPH production. Alternatively spliced transcript variants encoding the same protein

have been found for this gene. [provided by RefSeq, Sep 2013]

Highlight Related products:

<u>Isocitrate Dehydrogenase antibodies;</u> <u>Isocitrate Dehydrogenase ELISA Kits;</u>

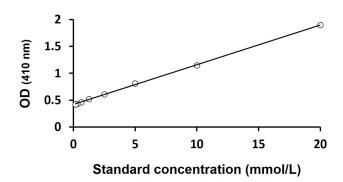
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Images



ARG82035 Isocitrate Dehydrogenase Assay Kit typical data demonstration image

ARG82035 Isocitrate Dehydrogenase Assay Kit results of a typical data with optical density reading at 410 nm.