

## 15-PGDH Inhibitor Screening Kit

### Product Information

**Cat.No.**

Kit-2098

**Product Overview**

In this assay, 15-PG is oxidized by 15-PGDH generating 15-Keto metabolites and oxidizing NADH. NADH reduces a Fluorometric probe thus, generating an enhanced and stable fluorescence signal (Ex/Em=535/587 nm). In the presence of an inhibitor, the enzymatic activity is inhibited resulting No/Low fluorescence. The 15-PGDH Inhibitor Screening Kit offers a rapid, simple, sensitive, and reliable test suitable for high-throughput screening of 15-PGDH inhibitors.

**Size**

100 assays

**Description**

15-hydroxyprostaglandin dehydrogenase (15-PGDH, EC: 1.1.1.141) catalyzes the oxidation of Prostaglandins (PG) to 15-keto metabolites which show greatly reduced biological activity when compared to Prostaglandins. 15-PGDH catalyzes the rate-limiting step of PG catabolism. More recently, the inhibition of 15-PGDH has been reported as a negative regulator of tissue repair and inhibition of this enzyme can potentiate tissue regeneration in mouse models. Thus, pharmacological inhibition of 15-PGDH could have clinical implications by accelerating potential tissue regeneration after damage.

**Applications**

Screening/studying/characterizing 15-PGDH inhibitors.

**Storage**

Store kit at -20°C, protected from light. Briefly spin small vials prior to opening. Read entire protocol before performing the assay. 15-PGDH Assay Buffer: Bring to room temperature before use. Store at -20°C. Use within two months. PicoProbe: Before use, thaw at room temperature. Store at -20°C. Use within two months. 15-PGDH Developer: Reconstitute with 220 µl of Assay Buffer. Avoid repeated freeze/thaw. Use within two months. Keep on ice while in use. 15-PGDH Substrate and 15-PGDH

## 15-PGDH Inhibitor Screening Kit

Inhibitor Control: Before use, thaw at room temperature. Store at -20°C. Use within two months. 15-PGDH Enzyme: Ready to use. Keep on ice while in use. Store at -20°C. Use within two months.

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### Kit Components

15-PGDH Assay Buffer: 25 ml PicoProbe (in DMSO): 200 µl 15-PGDH Developer: 1 vial 15-PGDH Substrate (in DMSO): 100 µl 15-PGDH Enzyme: 25 µl 15-PGDH Inhibitor Control (in DMSO): 20 µl

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**Detection method** Fluorescence (Ex/Em = 535/587 nm)

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### Features & Benefits

- Simple method to screen 15-PGDH inhibitors
  - High-throughput compatible
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