

## PDE4C Assay Kit

### Product Information

**Cat.No.**

Kit-1840

**Product Overview**

Phosphodiesterases (PDEs) play an important role in dynamic regulation of cAMP and cGMP signaling. PDE4C selectively hydrolyzes cAMP and is a candidate biomarker for human glioma. Research suggests that PDE4C functions as a tumor suppressor, and downregulation of PDE4C in glioma patients correlates with poor prognosis.

**Size**

384 reactions

**Description**

The PDE4C1 Assay Kit is designed for identification of PDE4C1 inhibitors using fluorescence polarization. The assay is based on the binding of a fluorescent nucleotide monophosphate generated by PDE4C1 to the binding agent. The key to the PDE4C1 Assay Kit is the specific binding agent. Using this kit, only two simple steps on a microtiter plate are required for PDE4C1 reactions. First, the fluorescently labeled cAMP is incubated with a sample containing PDE4C1 for 1 hour. Second, a binding agent is added to the reaction mix to produce a change in fluorescent polarization that can then be measured using a fluorescence reader.

**Applications**

Great for studying enzyme kinetics and screening small molecular inhibitors for drug discovery and HTS applications.

**Storage**

At least 6 months from date of receipt, when stored as directed. Kit components require different storage conditions. Be sure to store each component at the proper temperature upon arrival.

**Kit Components**

PDE4C1 recombinant enzyme: 1 µg; -80°C FAM-Cyclic-3', 5'-AMP (20 µM): 50 µl; -80°C PDE assay

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buffer: 25 ml; -20°C Binding Agent: 250 µl; +4°C Binding Agent Diluent: 25 ml; +4°C Black, low binding, microtiter plate: 1; Room temp.

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