CREATIVE BIOMART®
Assay Kit

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 buffer: 25 ml; -20°C Binding Agent: 250 µl; +4°C Binding Agent Diluent: 25 ml; +4°C Black, low

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binding, microtiter plate: 1; Room temp.

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