CREATIVE BIOMART®
Assay Kit

PDE3B Assay Kit II

Product Information

Cat.No. Kit-1837

Product Overview

Phosphodiesterases (PDEs) play an important role in dynamic regulation of cAMP and cGMP signaling. PDE3B, also known as cGMP-inhibited phosphodiesterase, is involved in mediating the antilipolytic and anti glycogenlytic effects of insulin in adipose and liver tissues. PDE3B can hydrolyze both cAMP and cGMP.

Size

384 reactions

Description

The PDE3B Assay Kit is designed for identification of PDE3B inhibitors using fluorescence polarization. The assay is based on the binding of a fluorescent nucleotide monophosphate generated by PDE3B to the binding agent. The key to the PDE3B Assay Kit is the specific binding agent. Using this kit, only two simple steps on a microtiter plate are required for PDE3B reactions. First, the fluorescently labeled cAMP is incubated with a sample containing PDE3B for 1 hour. Second, binding agent is added to the reaction mix to produce a change in fluorescent polarization that can then be measured using a fluorescence reader equipped for the measurement of fluorescence polarization.

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

PDE3B 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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