

Thallium-Free GIRK Potassium Channel Assay Kit

A high-throughput, thallium-free assay solution for measuring GIRK activity. ION Potassium Green-1 (IPG-1) AM fluorescent dye allows for the direct measurement of potassium (K^+) flux through agonized $G_{i/o}$ -coupled GPCRs or directly activated GIRK channels out of the cell, eliminating the need for toxic surrogate ions (e.g. Tl^+) or radioactive tracers. Provides reliable EC_{50}/IC_{50} values and is ideal for pharmacological profiling and discovery of therapeutic compounds targeting GIRK channels or GIRK channel-coupled pathways.

Available in these sizes:

12000-2	pIONeer Kit - 2 Plates
12000-10	Flex Kit - 10 Plates



Product Details	
Intended Use	High-throughput GIRK potassium (K^+) channel assay with adherent or non-adherent cells
Compatible Instruments	Plate Reader, HTS Instrument
Product Size	Enough reagents for 2 or 10 x 96-well or 384-well plate assays
Storage Temperature	Ships Ambient; Multiple Storage Conditions: -20°C and 4°C
Packaging	Components placed in bags marked with storage temperature, all packed in a mylar pouch

Kit Contents	<i>pIONeer</i> Kit Cat# 12000-2		<i>Flex</i> Kit Cat# 12000-10	
Component	Size	Qty	Size	Qty
IPG-1 AM	50 µg Vial	2	50 µg Vial	10
DMSO	Not Included in pIONeer		225 µL Vial	1
50X DySolv	800 µL Vial	1	4 mL Bottle	1
10X GIRK Potassium Assay Buffer	8 mL Bottle	1	40 mL Bottle	1
50X TRS	800 µL Vial	1	4 mL Bottle	1
50X Probenecid	800 µL Vial	1	4 mL Bottle	1

All supplied components are tested to meet individual product specifications, including validation in a cell assay similar to that described in the No-Wash Method of the Kit Protocol, available on the product webpage. Please review the Kit Protocol for additional information and suitability of the kit with your application. Dye indicators and buffer reagents are all available for individual sale on our website. Express kits are customizable and can be tailored to your specific requirements. Contact sales for more information.