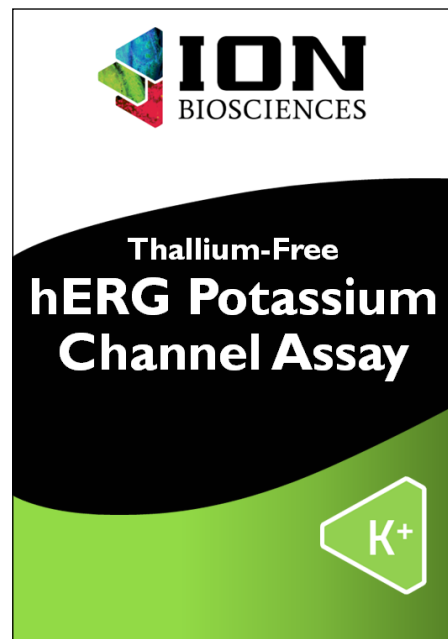


Thallium-Free hERG Potassium Channel Assay Kit

A high-throughput, thallium-free assay solution for measuring hERG (K_V11.1) channel activity and rapid assessment of hERG modulators. ION Potassium Green-1 (IPG-1) AM is a membrane-permeable fluorescent dye that allows for the direct measurement of intracellular potassium (K⁺) efflux through open hERG channels and is detected in real-time as a reduction in fluorescent intensity. Provides reliable EC₅₀/IC₅₀ values and is ideal for pharmacological profiling, cardiotoxicity screening, and discovery of therapeutic compounds targeting hERG channels.

Available in these sizes:

12100-2	pIONeer Kit - 2 Plates
12100-10	Flex Kit - 10 Plates



Product Details	
Intended Use	High-throughput hERG 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# 12100-2		<i>Flex</i> Kit Cat# 12100-10	
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 hERG Potassium Assay Buffer	6 mL Bottle	1	30 mL Bottle	1
50X TRS	800 µL Vial	1	4 mL Bottle	1
50X Probenecid	800 µL Vial	1	4 mL Bottle	1
10X hERG Potassium Stimulus Buffer	2 mL Bottle	1	10 mL Bottle	1

All supplied components are tested to meet individual product specifications. Please review the Kit Protocol for additional information and suitability of the kit with your application. Dye indicators and most reagents are all available for individual sale on our website.

Additional Assay and Stimulus Buffer is available for purchase. Contact sales@ionbiosciences.com for more information.