

$G_{i/o}$ GPCR-GIRK Thallium Flux Assay Kit Catalog # 11100

A total assay solution for multi-well plate based, high-throughput measurements of $G_{i/o}$ GPCR agonism measured via native GIRK coupling. This kit provides most reagents needed to conduct $G_{i/o}$ GPCR HTS. A simple transduction step allows the flexibility to study GPCRs that couple to GIRK using thallium flux. The kit is available for purchase either with, or without, a stable HEK293 cell line that expresses human $K_{ir}3.1$ and $K_{ir}3.2$.

Available in these sizes:

11100-a	Flex Kit - 10 Plates - with cell line
11100-b	Flex Kit - 10 Plates - without cell line



Product Details	
Intended Use	High-throughput measurements of $G_{i/o}$ GPCR for finding modulators through GIRK coupling
Compatible Instruments	Kinetic-Imaging Plate Reader, HTS Instrument
Product Size	Enough reagents for 10 x 96-well or 384-well plate assays
Storage Temperature	Assay Kit Ships Ambient; Cell Line ships on dry ice (-80°C) - 24 hour notice required to ship Multiple Storage Conditions: -196°C, -20°C, 4°C, and 20-25°C (room temperature)
Packaging	Components placed in bags marked with storage temperature, all packed in a mylar pouch

Kit Contents	<i>Flex Kit - with Cells</i> Cat# 11100-a		<i>Flex Kit - without Cells</i> Cat# 11100-b	
	Size	Qty	Size	Qty
HEK293-hu $K_{ir}3.1/3.2$ Cell Line	2 x 10 ⁶ cells (vial)	1	Not included in the kit	
Thallos AM	25 µg Vial	10	25 µg Vial	10
DMSO	225 µL Vial	1	225 µL Vial	1
50X DySolv	4 mL Bottle	1	4 mL Bottle	1
10X Brilliant Assay Buffer	20 mL Bottle	1	20 mL Bottle	1
50X TRS	4 mL Bottle	1	4 mL Bottle	1
50X Probenecid	4 mL Bottle	1	4 mL Bottle	1
10X Chloride Free Stimulus Buffer	10 mL Bottle	1	10 mL Bottle	1
50 mM Thallium Sulfate	20 mL Bottle	1	20 mL Bottle	1

All supplied components are tested to meet individual product specifications, including a cell validation assay. Cell lines are validated in a thallium flux assay. Please review the Kit Protocol for additional information and suitability of the kit with your application, available on the product webpage.

Dye indicators, buffer reagents, and cell lines are all available for individual sale on our website.