

Potassium Ion Channel Assay Kit

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CATALOG #
AAA62095

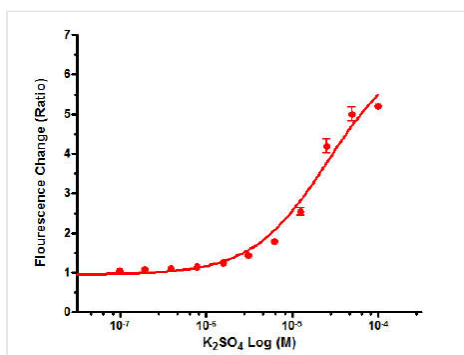
PRODUCT SYNONYMS

Potassium Ion Channel; Potassium Ion Channel Assay Kit; Elite Potassium Ion Channel Assay Kit; Potassium Ion Channel assay kit

PRODUCT SPECIFICATIONS

Detection	FlexStation or Microplate reader
Kit Components	Component A: Elite™ Thallium Indicator Dye 1 vial (0.9 mg) Component B: NYPR Solution, Probenecid Substitute 1 bottle (5 ml) Component C: 10x KAB Buffer 1 bottle (10 ml)
Preparation and Storage	Keep Component A at -20 degree C and avoid exposure to light. Component B at 4 degree C, and Component C at room temperature. All components are stable for 6 months after receipt if stored properly.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Potassium Ion Channel assay kit	Principle of the Assay: Potassium channels are a diverse and ubiquitous family of membrane proteins present in most cell types and control a wide variety of cell functions. Potassium (K ⁺) channels play key role in regulating such processes as heart rate, hormone secretion, neurotransmitter release, electrolyte and water balance, and cell division/proliferation. Given their physiological importance, K ⁺ channels have emerged as targets of drug discovery efforts for such indications as diabetes, epilepsy, pain, immunomodulation, arrhythmia, dementia, and others. The Elite™ Potassium Ion Channel kit is a no-wash cell based homogenous assay for high throughput screening measurements of potassium channel activity. Using thallium influx as a surrogate indicator of potassium ion channel activity, the assay is based on the activation of a proprietary fluorescent dye with a high affinity for thallium that reports potassium channel activity with a large fluorogenic signal which is proportional to the number of open potassium channels on the cell. The assay can be performed in a convenient 96-well or 384-well microtiter-plate format and easily adapted to automation without a separation step. Its signal can be read by a fluorescence microplate reader at Ex/Em = 488/525 nm (bottom read).
Product Categories/Family for Potassium Ion Channel assay kit	Cell Assay & Molecule Detection Kits; Potassium Ion Channel Assay Kit

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/assay-kits/potassium-ion-channel/62095>