CREATIVE BIOMART®
Assay Kit

PDI Inhibitor Screening Assay Kit

Product Information

Cat.No. Kit-0671

Product Overview

PDI Inhibitor Screening Assay Kit provides a simple, homogenous assay for screening modulators of protein disulfide isomerase (PDI) enzymatic activity in a 96-well microplate. The basis for the assay is the PDI-catalyzed reduction of insulin in the presence of DTT, resulting in the formation of insulin aggregates which in turnn bind to the red-emitting fluorogenic PDI Detection Reagent. Relative to analogous turbidimetric assays of PDI activity, the fluorescence-based assay provides a vastly improved assay signal window, improved lower detection limit and superior Z''-score (>0.8). The kit includes human recombinant PID enzyme as positive control, as well as the PDI inhibitor bacitracin as a negative control. This kit will provide a quantitative readout of PDI enzymatic activity is a robust and HTP fashion and can be applied to identification of PDI inhibitors from chemical libraries.

Size

2 x 96 tests

Applications

Functional Studies more details

Kit Components

Components: 2 x 96 tests; Deionized Water: 1 x 5ml; DTT: 2 x 1.3ml; Inhibitor Control (Bacitracin): 1 vial; Insulin (from bovine pancreas): 2 vials; PBE Buffer: 1 x 25ml; PDI (Human, Recombinant): 2 x 165µl; PDI Detection Reagent: 1 x 20µl; Stop Reagent: 1 x 1ml

Detection method Fluorescent

Compatible Sample Types

Purified protein, Inhibitor compounds

Sensitivity

37 µM

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