NanoBRET™ Target Engagement Assay for CDK2 Plus Cyclin E1 Kinase

Cell line: HEK293 human epithelial cell line from ATCC

Assay format: 384-well plate format using Promega’s NanoBRET™ TE Intracellular Kinase Assay

Assay protocol: HEK293 cells transiently co-expressing NanoLuc®- CDK2 Fusion Vector and Cyclin E1 Vector were seeded into the wells of 384-well plates. The cells were pre-treated with the NanoBRET™ Tracer K-10 and then treated with reference compound Dinaciclib for 1 hour. The BRET signal was measured on an Envision 2104 Multilabel Reader. IC<sub>50</sub> value was calculated and IC<sub>50</sub> curve was plotted using the GraphPad Prism 4 program based on a sigmoidal dose response equation.

Reference compound: Dinaciclib (IC50 value): 5.549e-008 M