NanoBRET™ Target Engagement Assay for CDK1 Plus Cyclin B1 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®- CDK1 Fusion Vector and Cyclin B1 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$_{50}$ value was calculated and IC$_{50}$ curve was plotted using the GraphPad Prism 4 program based on a sigmoidal dose response equation.

**Reference compound:** Dinaciclib (IC50 value): 5.572e-007 M