NanoBRET™ Target Engagement Assay for DDR2 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 expressing NanoLuc®-DDR2 Fusion Vector were seeded into the wells of 384-well plates. The cells were pre-treated with the NanoBRET™ Tracer K-4 and then treated with reference compound Dasatinib for 1 hour. The BRET signal was measured on an Envision 2104 Multilabel Reader. IC\textsubscript{50} value was calculated and IC\textsubscript{50} curve was plotted using the GraphPad Prism 4 program based on a sigmoidal dose response equation.

**Reference compound:** Dasatinib (IC\textsubscript{50} value): 2.267e-009 M

![Graph showing the normalized Bret response over Log[Dasatinib] (M) with reference compound IC\textsubscript{50} for DDR2: HILLSLOPE -0.8681, EC\textsubscript{50} 2.267e-009.](image)