



**Supplemental Figure 1. Dose titration of GNF-9228 in rat islets.**

Rat islets were cultured for 72 h in the presence of various doses of GNF-9228 or DMSO (vehicle control). EdU was added for the last 18 h of culture. Islets were dispersed and stained for EdU incorporation. Immunofluorescent signals were detected and quantified with a Thermo Scientific Cellomics CX5 High Content (HC) cell imaging system. Data are expressed as mean  $\pm$  S.E.M. fold-increase in EdU positive cells compared to DMSO control from 3 independent rat islet preparations. In one set of rat islets, 20  $\mu$ M GNF-9228 had no additional effect on rat islet cell EdU incorporation beyond the effect of the 10  $\mu$ M dose.