Supporting Information

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Fig. S1. Multiple treatments of NOC-18, 8-bromo cGMP (8BG) and combination of NOC-18 + 8BG: H-9 human ES cells were differentiated using embryoid body formation method and EBs were transferred into 12 well plates for further differentiation. The cells were exposed to NOC-18 (10 μ M), 8BG (0.75 mM) or the combination of NOC-18 + 8BG on days 7, 9, 11, 13 and harvested on d14. mRNA expression of Nkx2.5 was determined by real-time PCR. All of the samples were normalized with house keeping gene GAPDH. n = 3.



NOC+BAY41 treated H-9 cells

Fig. 52. Immunofluorescence detection of sGC α_1 and β_1 in H-9 cells exposed to NO donor and sGC activator. Differentiated cells were exposed to NOC-18 (1 μ M), BAY41–2272 (3 μ M) or the combination of two (C) for 24 h at 37°C and the cells were fixed with paraformaldehyde and incubated with antibodies to sGC α_1 and β_1 which was followed by detection with fluorescent conjugated secondary anti rabbit antibodies (10x magnification).

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Movie S1. Day 14 differentiated H-9 cells exposed to NO donor NOC-18 (2 μ M) on days 7, 9, 11, and 13. Shown are the beating areas.

Movie S1 (MPG)



Movie S2. Day 14 differentiated H-9 cells exposed to NO donor NOC-18 (2 μ M) + BAY 41-2272 (3 μ M) on days 7, 9, 11 and 13. Shown are the beating areas.

Movie S2 (MPG)

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