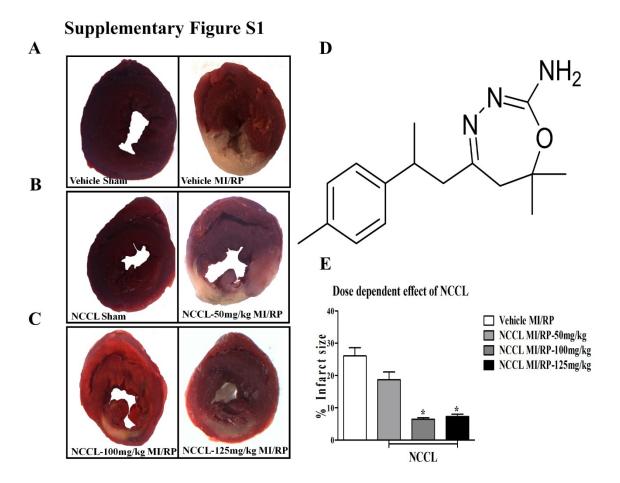
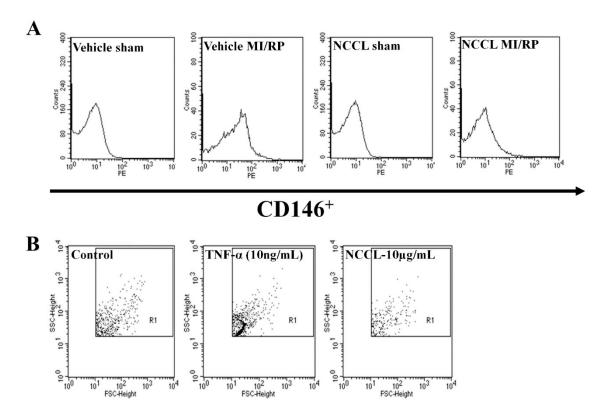
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Caption:

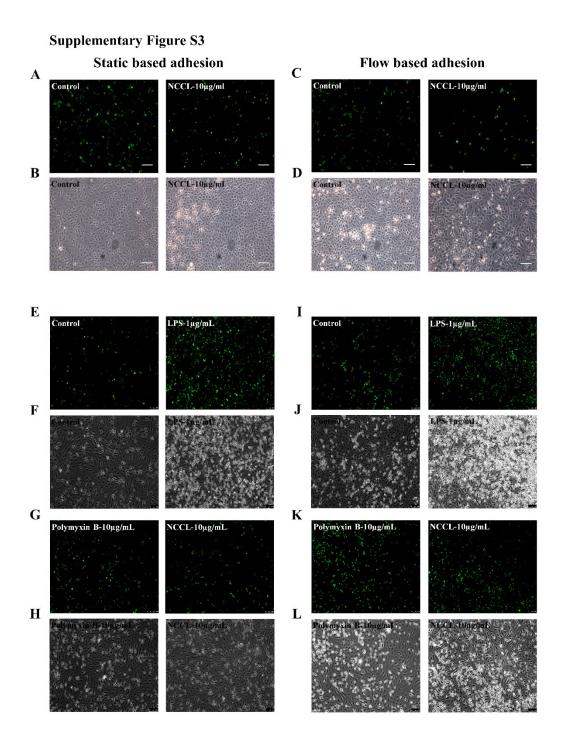
Supplementary Figure S1: Dose dependent effect of NCCL. TTC stained heart section A, Vehicle Sham and Vehicle MI/RP; B, NCCL Sham and NCCL-50mg/kg MI/RP; C, NCCL-100mg/kg and NCCL-125mg/kg. D, Marker compound-(I) 7,7-dimethyl-5-(2-p-tolylpropyl)-6,7-dihydro-1,3,4-oxadiazepin-2-amine. E, percent infarct size of TTC stained hearts.

Supplementary Figure S2



Caption

Supplementary Figure S2: Reduced EMP production *in vivo* and *in vitro* after NCCL treatment. A, Histogram of plasma EMPs of Vehicle sham, Vehicle MI/RP, NCCL sham and NCCL MI/RP. B, Dot plot of EMPs after TNFα and NCCL treatment.



Caption

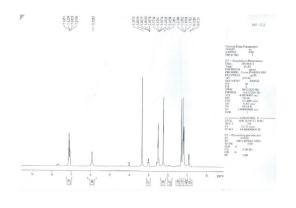
Supplementary Figure S3: Cellular interaction under static and flow based conditions. A, B, E - H, represent adhesion of THP-1 monocytes onto EA.hy926 cells under static condition. C, D, I - L represents adhesion of THP-1 monocytes onto EA.hy926 cells under flow based

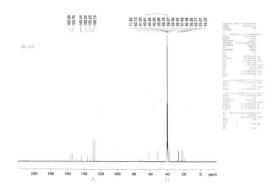
condition. Panel A, C, E, G, I, and K, represent the fluorescence image of THP-1 monocytes adhered onto EA.hy926 cells and Panel B, D, F, H, J and L, represents the phase contrast image.

Supplementary Figure S4

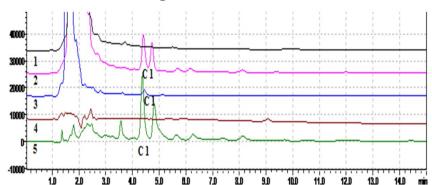


B 13C NMR (400 MHz, DMSO-d6)





C HPLC Chromatogram



Caption

Supplementary Figure S4: NMR and HPLC chromatogram of NCCL. A, represent 1 H NMR (400 MHz, DMSO-d₆): δ 7.13(d, 2H, J= 7.68), δ 7.08(d, 2H, J= 7.56), δ 5.93 (S, 2H), δ 3.01 (dd, 1H, J=6.90), δ 2.5 (m, 4H), δ 2.24 (s, 3H), δ 1.31 (s, 3H), δ 1.23(s, 3H), δ 1.18 (d, 3H, J=6.72). B, represents 13 C NMR (400 MHz, DMSO-d₆): 155.41, 153.28, 142.96, 135.04, 128.86, 126.69, 61.66, 50.85, 37.98, 36.55, 26.00, 25.78, 22.29, 20.59. C, represents HPLC fingerprint of NCCL achieved on a Lichrocart RP 18e (250 x 4.6mm, 5μ) column using mobile phase comprising acetonitrile: water (70:30); where C1 represents major marker compound (I); 1: Blank plasma, 2: Plasma spiked with 200 μg/mL NCCL, 3: Plasma at 6 hours after administration of NCCL, 4: Blank methanol, 5: NCCL (200 μg/mL).