

FIGURE 1: Inhibitory effect of ethanol fraction of *Parquetina nigrescens* (EFOPN) on α-amylase (a), α-glucosidase (b) and pancreatic lipase (c). Data are expressed as mean ± SEM (n=3) and analysed by one-way ANOVA followed by Dunnett’s test, P˂0.0001 (\*\*\*\*) versus control (ctrl); 0.02 and 0.2 mg/mL EFOPN (0.02 and 0.2); 0.02 mg/mL acarbose (Acab), 0.015 mg/mL orlistat (Orst).



FIGURE 2: Effect of ethanol fraction of *Parquetina nigrescens* (EFOPN) on insulin release from INS-1 832/13 -cells under basal and stimulatory glucose concentration. Data are shown as mean ± SEM (n=3) and analyzed by two-way ANOVA followed by Turkey’s multiple comparison test, P˂0.0001 (\*\*\*\*versus control (Ctrl); ^^^^ basal versus stimulatory glucose (Glc); #### 0.02 mg/mL versus 0.2 mg/mL EFOPN.



FIGURE 3: Effect of ethanol fraction of *Parquetina nigrescens* (EFOPN) on intracellular calcium responses in INS-1 832/13 -cells. Data are shown as mean ± SEM (n=3) and analyzed by two-way ANOVA followed by Turkey’s multiple comparison test , P˂0.05 (\*), P˂0.05 (\*\*), P˂0.001 (\*\*\*), P˂0.0001 (\*\*\*\*), KCL: 30 mM KCL, 0.02: 0.02 mg/mL EFOPN, 0.2: 0.2 mg/mL of EFOPN, TPG: thapsigargin (20 nM), SKF: SKF-96365 (30 µM), MFD: mibefradil (10 µM), SN-6: SN-6 (10 µM).