



Graphical Abstract. The effect of caprylic acid on lipid metabolism and inflammatory response and its proposed mechanism. Arrows (\downarrow) represent a decreasing level and downregulation of activity or protein or mRNA expression. Arrows (\uparrow) represent an increasing level and upregulation of activity or protein or mRNA expression. ABCA1, ATP-binding cassette transporter A1; JAK2, Janus Kinase 2; STAT3, signal transducer and activator of transcription 3; NF- κ B, nuclear factor kappa B; TNF- α , tumor necrosis factor α ; IL-1 β , interleukin-1 β ; IL-6, interleukin-6; IL-10, interleukin-10; MCP-1, monocyte chemoattractant protein-1; TC, total cholesterol; LDL-C, low density lipoprotein cholesterol.