

Accepted Manuscript

Title: Chalcones as putative hepatoprotective agents:
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PII: S1043-6618(17)31077-0
DOI: <https://doi.org/10.1016/j.phrs.2017.11.022>
Reference: YPHRS 3737

To appear in: *Pharmacological Research*

Please cite this article as: Sales Elham Karimi, Mohaddes Gisou, Alipour Mohammad Reza. Chalcones as putative hepatoprotective agents: Preclinical evidence and molecular mechanisms. *Pharmacological Research* <https://doi.org/10.1016/j.phrs.2017.11.022>

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Chalcones as putative hepatoprotective agents: Preclinical evidence and molecular mechanisms

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Abbreviations: ALP, alkaline phosphatase; ALT, alanine aminotransferase; AMPK, AMP activated protein kinase; apoB, apolipoprotein B; AST, aspartate aminotransferase; COX-2, cyclooxygenase-2; CPT, carnitine palmitoyltransferase; DGAT-1, diacylglycerol acyltransferase-1; ECM, extracellular matrix; FA, fatty acid; GLUT2, glucose transporter 2; GSK3 β , glycogen synthase kinase 3 β ; HCC, hepatocellular carcinoma; HMG-CoA, hydroxy-3-methylglutaryl coenzyme A; HSCs, hepatic stellate cells; HSYA, Hydroxysafflor yellow A; IL-6, interleukin-6; IRS1, insulin receptor substrate 1; JNK, c-Jun N-terminal kinase; LPS, lipopolysaccharide; MCP-1, monocyte chemoattractant protein-1; MIP-2, macrophage inflammatory protein-2; MMPs, matrix metalloproteinases; MTP, microsomal triglyceride transfer protein; PDGF, platelet-derived growth factor; p38 MAPK, p38 mitogen-activated protein kinase; NAFLD, nonalcoholic fatty liver disease; NASH, nonalcoholic steatohepatitis; NF- κ B, nuclear factor- κ B; NO, nitric oxide; PPAR, peroxisome proliferator-activated receptor; α -SMA, α -smooth muscle actin; SREBP-1, sterol regulatory element-binding protein-1; STAT3, signal transducer and activator of transcription 3; TGF- β 1, transforming growth factor- β 1; TIMPs, tissue inhibitors of metalloproteinases; TNF- α , tumor necrosis factor- α ; UCP2, uncoupling protein 2.

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