Teterahydrocurcumines as antidiabetic agents(1-30)

- 1. Jariyapongskul A, Patumraj S, Suksumrarn A. Long-term effect of tetrahydrocurcumin supplementation on cerebral blood flow and endothelial cells in streptozotocin-induced diabetic rats. Asian Biomedicine. 2008;2(2):151-5.
- 2. Jearapong N, Chatuphonprasert W, Jarukamjorn K. Effect of tetrahydrocurcumin on the profiles of drug-metabolizing enzymes induced by a high fat and high fructose diet in mice. Chemico-Biological Interactions. 2015;239:67-75.
- 3. Karthikesan K, Pari L, Menon VP. Antihyperlipidemic effect of chlorogenic acid and tetrahydrocurcumin in rats subjected to diabetogenic agents. Chemico-Biological Interactions. 2010;188(3):643-50.
- 4. Karthikesan K, Pari L, Menon VP. Protective effect of tetrahydrocurcumin and chlorogenic acid against streptozotocin-nicotinamide generated oxidative stress induced diabetes. Journal of Functional Foods. 2010;2(2):134-42.
- 5. Karthikesan K, Pari L, Menon VP. Combined treatment of tetrahydrocurcumin and chlorogenic acid exerts potential antihyperglycemic effect on streptozotocin-nicotinamide-induced diabetic rats. General Physiology and Biophysics. 2010;29(1):23-30.
- 6. Khazaeli M, Nunes ACF, Zhao Y, Khazaali M, Prudente J, Vaziri ND, et al. Tetrahydrocurcumin Add-On therapy to losartan in a rat model of diabetic nephropathy decreases blood pressure and markers of kidney injury. Pharmacology Research and Perspectives. 2023;11(2).
- 7. Kim SS, Jang HJ, Oh MY, Lee JH, Kang KS. Tetrahydrocurcumin Enhances Islet Cell Function and Attenuates Apoptosis in Mouse Islets. Transplantation Proceedings. 2018;50(9):2847-53.
- 8. Kumari P, Beg S, Singh KK, Kakkar V. Applicability of QbD-assisted Analytical Method for Simultaneous Detection of Tetrahydrocurcumin and Folic Acid in Developed Nanostructured Lipid Carriers. Current Analytical Chemistry. 2024;20(8):533-48.
- 9. Lai CS, Wu JC, Yu SF, Badmaev V, Nagabhushanam K, Ho CT, et al. Tetrahydrocurcumin is more effective than curcumin in preventing azoxymethane-induced colon carcinogenesis. Molecular Nutrition and Food Research. 2011;55(12):1819-28.
- 10. Li K, Zhai M, Jiang L, Song F, Zhang B, Li J, et al. Tetrahydrocurcumin ameliorates diabetic cardiomyopathy by attenuating high glucose-induced oxidative stress and fibrosis via activating the SIRT1 pathway. Oxidative Medicine and Cellular Longevity. 2019;2019.
- 11. Murugan P. Effect of pterostilbene compared to tetrahydrocurcumin on insulin receptor status in type 2 diabetic rats: Studies on the binding of insulin to erythrocytes. Current Topics in Peptide and Protein Research. 2023;24:65-75.
- 12. Murugan P, Pari L. Antioxidant effect of tetrahydrocurcumin in streptozotocinnicotinamide induced diabetic rats. Life Sciences. 2006;79(18):1720-8.
- 13. Murugan P, Pari L. Effect of tetrahydrocurcumin on lipid peroxidation and lipids in streptozotocin-nicotinamide-induced diabetic rats. Basic and Clinical Pharmacology and Toxicology. 2006;99(2):122-7.

- 14. Murugan P, Pari L. effect of tetrahydrocurcumin on plasma antioxidants in streptozotocin-nicotinamide experimental diabetes. Journal of Basic and Clinical Physiology and Pharmacology. 2006;17(4):231-44.
- 15. Murugan P, Pari L. Influence of tetrahydrocurcumin on hepatic and renal functional markers and protein levels in experimental type 2 diabetic rats. Basic and Clinical Pharmacology and Toxicology. 2007;101(4):241-5.
- 16. Murugan P, Pari L. Influence of tetrahydrocurcumin on erythrocyte membrane bound enzymes and antioxidant status in experimental type 2 diabetic rats. Journal of Ethnopharmacology. 2007;113(3):479-86.
- 17. Murugan P, Pari L. Protective role of tetrahydrocurcumin on changes in the fatty acid composition in streptozotocin-nicotinamide induced type 2 diabetic rats. Journal of Applied Biomedicine. 2007;5(1):31-8.
- 18. Murugan P, Pari L, Appa Rao CA. Effect of tetrahydrocurcumin on insulin receptor status in type 2 diabetic rats: Studies on insulin binding to erythrocytes. Journal of Biosciences. 2008;33(1):63-72.
- 19. Pari L, Karthikesan K. Protective role of tetrahydrocurcumin and chlorogenic acid on glycoprotein changes in streptozotocin-nicotinamide-induced diabetic rats. Journal of Pharmaceutical Sciences and Research. 2009;1(4):173-80.
- 20. Pari L, Karthikesan K, Menon VP. Comparative and combined effect of chlorogenic acid and tetrahydrocurcumin on antioxidant disparities in chemical induced experimental diabetes. Molecular and Cellular Biochemistry. 2010;341(1-2):109-17.
- 21. Pari L, Murugan P. effect of tetrahydrocurcumin on blood glucose, plasma insulin and hepatic key enzymes in streptozotocin induced diabetic rats. Journal of Basic and Clinical Physiology and Pharmacology. 2005;16(4):257-74.
- 22. Pari L, Murugan P. Influence of tetrahydrocurcumin on tail tendon collagen contents and its properties in rats with streptozotocin-nicotinamide-induced type 2 diabetes. Fundamental and Clinical Pharmacology. 2007;21(6):665-71.
- 23. Pari L, Murugan P. Antihyperlipidemic effect of curcumin and tetrahydrocurcumin in experimental type 2 diabetic rats. Renal Failure. 2007;29(7):881-9.
- 24. Pari L, Murugan P. Tetrahydrocurcumin prevents brain lipid peroxidation in streptozotocin-induced diabetic rats. Journal of Medicinal Food. 2007;10(2):323-9.
- 25. Pari L, Murugan P. Changes in glycoprotein components in streptozotocin Nicotinamide induced type 2 diabetes: Influence of tetrahydrocurcumin from curcuma longa. Plant Foods for Human Nutrition. 2007;62(1):25-9.
- 26. Sangartit W, Ha KB, Lee ES, Kim HM, Kukongviriyapan U, Lee EY, et al. Tetrahydrocurcumin ameliorates kidney injury and high systolic blood pressure in high-fat dietinduced type 2 diabetic mice. Endocrinology and Metabolism. 2021;36(4):810-22.
- 27. Sangartit W, Kukongviriyapan U, Donpunha W, Pakdeechote P, Kukongviriyapan V, Surawattanawan P, et al. Tetrahydrocurcumin protects against cadmium-induced hypertension, raised arterial stiffness and vascular remodeling in mice. PLOS ONE. 2014;9(12).
- 28. Sharma J, Bhatt S, Abhishek A, Tiwari V, Kumar M, Verma R, et al. Statistical optimization of tetrahydrocurcumin loaded solid lipid nanoparticles using Box Behnken design in the management of streptozotocin-induced diabetes mellitus. Saudi Pharmaceutical Journal. 2023;31(9).

- 29. Tsai YZ, Tsai ML, Hsu LY, Ho CT, Lai CS. Tetrahydrocurcumin upregulates the adiponectinadipor pathway and improves insulin signaling and pancreatic β -cell function in high-fat diet/streptozotocin-induced diabetic obese mice. Nutrients. 2021;13(12).
- 30. Yuan T, Yin Z, Yan Z, Hao Q, Zeng J, Li L, et al. Tetrahydrocurcumin ameliorates diabetes profiles of db/db mice by altering the composition of gut microbiota and up-regulating the expression of GLP-1 in the pancreas. Fitoterapia. 2020;146.