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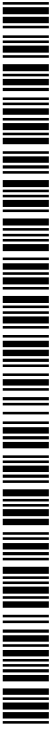
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(54) **Title:** SEPHINI AND RELATED COMPOUNDS FOR THE TREATMENT OF DISEASES AND DISORDERS AMENABLE TO TREATMENT BY AMPK ACTIVATION AND/OR CHOP INHIBITION

(57) **Abstract:** Methods of treating diseases and disorders treatable by AMPK activation with sephinI and related compounds, for example metabolic syndrome, non-alcoholic fatty liver disease, nonalcoholic steatohepatitis (NASH), obesity, type 2 diabetes, insulin resistance, glucose intolerance, chronic pain, sarcopenia, a neuromuscular disorder, heart failure, cardiac hypertrophy, diabetic cardiomyopathy, cardiac reperfusion injury, chronic kidney disease, polycystic kidney disease, diabetic nephropathy, cardiovascular diseases, inflammatory bowel disease, arthritis, hypertension, peripheral vascular disease, nephrogenic diabetes insipidus, glaucoma, an eye disease or disorder, ocular neovascularization, β -hemoglobinopathy, cancer, fibrosis, cancer cachexia, and mitochondrial disease.