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(54) Title: PRODRUGS AND CONJUGATES OF 2, 4-DINITROPHENOL, AND COMPOSITIONS AND METHODS THEREOF

(57) Abstract: The invention provides novel 2, 4-dinitrophenol (DNP) derivatives and prodrugs thereof, as modulators of mitochondria functions. The invention also provides pharmaceutical compositions comprising a compound of the invention and methods thereof for treating various diseases and disorders associated with or related to mitochondrial dysfunctions (e.g., obesity, diabetes, insulin resistance, liver diseases, heart or renal failure, neurodegenerative diseases and aging related diseases, including but not limited to sarcopenia, osteoporosis, etc.).



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