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

(57) Abstract: Provided herein are novel 2,4-dinitrophenol (DNP) derivatives and prodrugs of formula (I), as modulators of mitochondria functions, as well as pharmaceutical compositions comprising a compound described above 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 or aging related diseases).



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