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(54) **TREATMENT OF MUSCULAR CONDITIONS AND MUSCULAR DYSTROPHIES**

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(58) **Field of Classification Search**
None
See application file for complete search history.

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(57) **ABSTRACT**

The present invention provides methods for improving muscular function or treating a muscular disorder in an individual by administering to the individual a pharmacologically effective amount of a compound that inhibits microtubule-dependent NADPH Oxidase 2 reactive oxygen species signaling production. In addition compounds that block sarcolemmal Ca²⁺ channel activation and/or renin-angiotensin signaling may be administered with the inhibitor of microtubule-dependent NADPH Oxidase 2 reactive oxygen species signaling production.

16 Claims, 13 Drawing Sheets