Abstract

METHODS AND AGENTS THAT STIMULATE MITOCHONDRIAL TURNOVER FOR TREATING DISEASE

Provided herein are methods of stimulating mitophagy in a subject in need thereof administering to the subject a mitophagy-stimulating amount of a MAS receptor agonist or substance that triggers endogenous production of a MAS receptor agonist. The present disclosure also relates to medical intervention methods and agents, namely methods and agents for stimulation of mitochondrial turnover for treatment of disease in a mammal. The disclosure comprises a method of stimulating increased mitochondrial turnover in a mammal comprising administering to the mammal a pharmacologically suitable dose of a MAS receptor agonist; MAS receptor modulator; a substance that triggers endogenous production of a MAS receptor agonist; a substance that triggers endogenous production of a MAS receptor modulator; or any combination thereof. The pharmacological activity acting on MAS receptor in turn stimulates an increase in mitochondrial turnover in host cells, alleviating a disease state in the host mammalian organism.

No accompanying figure