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(54) Title: NOVEL BREATHING CONTROL MODULATING COMPOUNDS, AND METHODS OF USING SAME

(57) Abstract: The present invention includes pyrimido[5,4-*d*]pyrimidines that are useful in the prevention and/or treatment of breathing control diseases or disorders in a subject in need thereof. The present invention also includes a method of preventing and/or treating a respiratory disease or disorder in a subject in need thereof, comprising administering to the subject a therapeutically effective amount of a compound of the invention. The present invention further includes a method of preventing destabilization or stabilizing breathing rhythm in a subject in need thereof, comprising administering to the subject a therapeutically effective amount of a compound of the invention.



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