

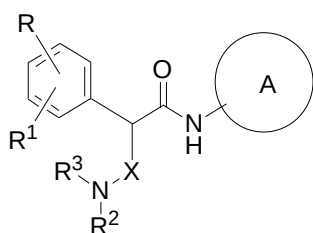
NITROXIDE DERIVATIVE OF ROCK KINASE INHIBITOR

ABSTRACT

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The invention provides a small molecule compound of a NO donor, characterized in that the small molecule compound of the NO donor is a compound shown in the following structural formula I or a stereoisomer, a geometric isomer, a tautomer, a racemate, a deuterated isotopic derivative, a hydrate, a solvate, a metabolite, or a pharmaceutically acceptable salt or prodrug thereof;

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formula I; wherein a ring A is a substituted or unsubstituted

heteroaromatic ring; X is selected from (CH₂)_n, wherein n is selected from 0, 1, 2, or 3; R is a substituent of terminal -O-NO₂; R¹ is selected from hydrogen, a hydroxyl group, a halogen, an amino group, a cyano group, a substituted or unsubstituted alkyl group, a substituted or unsubstituted alkoxy group, a substituted or unsubstituted alkenyl group, a substituted or unsubstituted alkynyl group, or a substituted or unsubstituted heteroalkyl group; R² and R³ are each independently selected from hydrogen, a substituted or unsubstituted alkyl group, a substituted or unsubstituted cycloalkyl group, or an amino protecting group; alternatively, R² and R³ are connected to each other to form a substituted or unsubstituted cycloheteroalkyl group. The

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compound has a highly active inhibitory effect on ROCK kinase.