Circulation Research

CRRL269: A Novel Particulate Guanylyl Cyclase A Receptor Peptide Activator For Acute Kidney Injury

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* Long In Vivo Checklist

used and are described.

been provided.

Circulation Research - Preclinical Animal Testing: A detailed checklist has been developed as a prerequisite for every publication involving preclinical studies in animal models. **Checklist items must be clearly described in the manuscript; if the answer to a question is "No", an explanation should be provided both within the manuscript text and on the following screen.** If this information (checklist items and/or explanations) cannot be included in the main manuscript because of space limitations, please include it in an online supplement. If the manuscript is accepted, this checklist will be published as an online supplement. See the explanatory <u>editorial</u> for further information.

This study involves use of animal models:

Yes

Study Design	
The experimental group(s) have been clearly defined in the article, including number of animals in each experimental arm of the study.	Yes
An overall study timeline is provided.	Yes
The protocol was prospectively written	Yes
The primary and secondary endpoints are specified	N/A
For primary endpoints, a description is provided as to how the type I error multiplicity issue was addressed (e.g., correction for multiple comparisons was or was not used and why). (Note: correction for multiple comparisons is not necessary if the study was exploratory or hypothesis-generating in nature).	N/A on
A description of the control group is provided including whether it matched the treated groups.	Yes
Inclusion and Exclusion criteria	
Inclusion and exclusion criteria for enrollment into the study were defined and are reported in the manuscript.	Yes
These criteria were set a priori (before commencing the study).	Yes
Randomization	
	Voo
Animals were randomly assigned to the experimental groups.	Yes
If random assignment was not used, adequate explanation has been provided.	N/A
Type and methods of randomization have been described.	Yes
Allocation concealment was used.	Yes
Methods used for allocation concealment have been reported.	N/A
Blinding	
Blinding procedures with regard to masking of group/treatment assignment from the experimenter were used and are described. The rationale for nonblinding of the experimenter has been provided if such was not performed.	Yes d,
Blinding procedures with regard to masking of group assignment during outcome assessment were	e Yes

If blinding was not performed, the rationale for nonblinding of the person(s) analyzing outcome has

Yes

Sample size and power calculations

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Formal sample size and power calculations were conducted before on a priori determined outcome(s) and treatment effect(s), and the data		Yes
If formal sample size and power calculation was not conducted, a ra	ationale has been provided.	N/A
Data Reporting		
Baseline characteristics (species, sex, age, strain, chow, bedding, a reported.	and source) of animals are	Yes
The number of animals in each group that were randomized, tested reported. If the experimentation involves repeated measurements, that each time point is provided is provided for all experimental group.	ne number of animals assessed	Yes
Baseline data on assessed outcome(s) for all experimental groups	are reported.	Yes
Details on important adverse events and death of animals during the reported for all experimental groups.	e course of the experiment are	Yes
Numeric data on outcomes are provided in the text or in a tabular for supplementary tables, in addition to the figures.	ormat in the main article or as	Yes
To the extent possible, data are reported as dot plots as opposed small sample size groups.	to bar graphs, especially for	Yes
In the online Supplemental Material, methods are described in suffice replication of the study.	cient detail to enable full	Yes
Statistical methods		
The statistical methods used for each data set are described.		Yes
For each statistical test, the effect size with its standard error and $\it P$ encouraged to provide 95% confidence intervals for important com	•	Yes
Central tendency and dispersion of the data are examined, particular	arly for small data sets.	Yes
Nonparametric tests are used for data that are not normally distribut	ed.	Yes
Two-sided P values are used.		Yes
In studies that are not exploratory or hypothesis-generating in nature hypotheses testing and multiple comparisons are performed.	e, corrections for multiple	N/A
In "negative" studies or null findings, the probability of a type II error	is reported.	N/A
Experimental details, ethics, and funding statements		
Details on experimentation including formulation and dosage of the administration, use of anesthesia and analgesia, temperature contropostprocedural monitoring are described.		Yes
Both male and female animals have been used. If not, the reason/ju	ustification is provided.	Yes
Statements on approval by ethics boards and ethical conduct of stu	idies are provided.	Yes
Statements on funding and conflicts of interests are provided.		Yes

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