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Electron spin resonance (ESR) study of cigarette smoke by ...

Nitron spin traps are
commonly employed
as probes for the
identification of
transient radicals in
chemical and biological

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systems using electron paramagnetic resonance (EPR) spectroscopy. Nitrones have also found applications as therapeutic agent in the treatment of radical-mediated diseases. Therefore, a spin trap that incorporates high reactivity to superoxide radical anion ($O_2^{\bullet-}$), more ...

Spin trapping -

Page 5/28

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Abstract. In our original work (V. Khramtsov, L.J. Berliner and T.L. Clanton, Magn. Reson. Med. 42:228-234, 1999), a ^{31}P nuclear magnetic resonance spin trapping (ST NMR) approach aimed to overcome comparatively short lifetimes of the paramagnetic adducts by detecting stable diamagnetic adducts of the degradation of

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phosphorous-
containing nitron was
proposed.

Comparative investigation of superoxide trapping by cyclic ...

2.3. NXY-059

(Cerovive®) NXY-059
is an experimental α -
phenyl-tert-butyl
nitron (PBN)-derived
antioxidant that is
capable of trapping
free radicals 31, which
is characteristic of the

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nitron family. This results in the formation of a more stable radical molecule that is easily detected by electron paramagnetic resonance (EPR) spectroscopy, before decomposing to release NO 32.

Nitron spin on cerebral ischemia | Request PDF

Oxidative stress is the main etiological factor behind the

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pathogenesis of various diseases including inflammation, cancer, cardiovascular and neurodegenerative disorders. Due to the spin trapping abilities and various pharmacological properties of nitrones, their application as therapeutic agent has been gaining attention.

**Nanomedicine in the
ROS-Mediated
Pathophysiology ...**

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The technique of spin trapping has been applied to the gas phase of cigarette smoke to identify and quantify the radicals present. It was found that radicals could be trapped only if the smoke was filtered. Three spin traps were used: N-tert-butyl-alpha-phenyl nitron (PBN). 5,5-dimethyl-delta1 ...

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Of The
We performed
mechanistic studies of
the reaction of PBN
with the physiologically
relevant glutathyl
radical, $GS\bullet$, formed
upon oxidation of the
intracellular
antioxidant,
glutathione, GSH. The
scavenging rate
constant of $GS\bullet$ by PBN
has been measured
directly by laser flash

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photolysis and indirectly by competitive EPR of the spin adduct of PBN and another spin trap, DMPO (5,5-dimethyl-1 ...

The utilization of nitron spin traps in a study of the ...

A phenyl-based nitron spin trap developed by AstraZeneca, NXY-059, is due to enter Phase III clinical trials for use in acute ischemic stroke.

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The utility of this compound in SAINTII trial was unsuccessful though the drug was safe.

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Examples of the use of nitron spin traps for the elucidation of reaction mechanisms during the illumination of pigment dispersions are presented.

Detection of

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superoxide and hydroxyl radicals with CdS, phthalocyanine, and ZnO is discussed. Singlet oxygen is also detectable with spin traps by ...

NMR Spin Trapping: Insight into the Hidden ... -

SpringerLink

Abstract. Azulenyl nitrones have been recently demonstrated to constitute a new class of nitron-based

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spin traps with the unprecedented capacity to tag free radicals by yielding characteristically colored and highly visible diamagnetic (and paramagnetic) spin adducts.

The utilization of nitron spin traps in a study of the ...

Immuno-spin trapping is a highly sensitive method for detecting DNA radicals in

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biological systems. This technique involves three main steps: (i) in situ and real-time trapping of DNA radicals with the nitron spin trap 5,5-dimethyl-1-pyrroline-N-oxide (DMPO), thus forming DMPO-DNA nitron adducts ...

Lipophilic β - Cyclodextrin Cyclic-Nitron Conjugate ...

Structural

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Of The

rearrangements
induced by the action
of oxidizers in nitron
spin traps are
investigated by means
of the semi-empirical
calculation of energy
changes that
accompany the
processes assumed on
the basis of
experimental
observations. The
mechanisms of
cyclization of acyclic
nitrones and cycle
opening in cyclic

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dinitrones are assumed on the basis of calculation results.

Lipophilic β -Cyclodextrin Cyclic-Nitron Conjugate ...

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...
Traps In A Study

**Diagnostic and
therapeutic
applications of
azulenyl ...**

The superoxide free radical adds to the beta position of a cyclic nitron to give a substituted cyclic nitroxide that can be detected by EPR—a process referred to as spin trapping. The nitron of choice for this type of study was

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for many years

5,5-dimethyl-1-pyrrolin
e N-oxide (DMPO).

Immuno-spin trapping analyses of DNA radicals

Immuno-spin trapping
detection of DNA
radicals with the
nitron spin trap
5,5-dimethyl-1-pyrrolin
e N-oxide (DMPO) has
made important
contributions towards
the understanding of
DNA radicalization and

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genotoxicity at sites of inflammation. At sites of inflammation, one-electron oxidants and chloramines decay induce oxidation of genomic DNA, genotoxicity and cell transformation.

Methods for Detection of Mitochondrial and Cellular ...

Review Among the most important signaling molecules in

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biological systems are
the reactive oxygen
species/reactive
nitrogen species
(ROS/RNS). ROS/RNS
are small molecules,
compris

Mechanistic Studies of the Reactions of Nitron Spin Trap ...

Cyclic hydroxylamines
react with $O_2^{\bullet-}$ with
rate constants of
 $\sim 10^3-10^4 \text{ M}^{-1}\text{s}^{-1}$
(pH=7.4), which is
much more rapid that

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the reaction of $O_2^{\bullet-}$ with nitrono spin traps. This favors the competition of nitroxides with cellular antioxidants and enhances the efficiency for detection of intracellular $O_2^{\bullet-}$ (Fig. 5B) (17).

Inhibition of ROS-induced apoptosis ... - PubMed Central (PMC)

Spin traps. The most commonly used spin

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traps are alpha-phenyl N-tertiary-butyl nitron (PBN) and 5,5-dimethyl-pyrroline N-oxide (DMPO). More rarely, C-nitroso spin traps such as 3,5-dibromo-4-nitrosobenzenesulfonic acid (DBNBS) can be used: often additional hyperfine information is derived, but at a cost of specificity...

Trapping of DNA radicals with the nitron spin trap 5,5

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Introduction. Spin trapping is commonly employed for the identification and detection of free radicals using nitron spin traps and electron paramagnetic resonance (EPR) spectroscopy. 1 The use of spin trapping has been gaining popularity in the investigation of reactive intermediates in the areas of fuel cell

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research, 2
nanotechnology, 3
catalysis, 4
environmental
remediation, 5 and ...

**Nitron - an
overview |
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Spin traps are based around a nitron or nitroxide containing molecule such as isoindole-based nitrones [219] and azulenyl-based nitrones [220]. One

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such azulenyl nitron, STANZ, may prove promising for in vivo use as it exhibits very potent antioxidant activity.

Nitron - an overview | ScienceDirect Topics

The utilization of nitron spin traps in a study of the photochemistry of pigment dispersions

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Of The**