# The Utilization Of Nitrone Spin Traps In A Study Of The

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**The Utilization Of Nitrone Spin**

Examples of the use of nitrone spin traps for the elucidation of reaction mechanisms during the illumination of pigment dispersions are presented. Detection of superoxide and hydroxyl radicals with CdS, phthalocyanine, and ZnO is discussed.

**The utilization of nitrone spin traps**

**in a study of the ...**

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**The utilization of nitrone spin traps**

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Nitrones have emerged as the most popular spin traps for biological applications, and out of several nitrone spin traps, the cyclic 5,5-dimethyl-1-pyrroline N-oxide (DMPO) has received most attention, since it yields distinct and characteristic adducts with superoxide radical anion ($O^{-}_{2}$)

and hydroxyl radical (OH). The use of DMPO as a probe for oxyradical generation in biology systems is not without limitations as high concentrations of DMPO have been suggested to have serious toxic ...

**Nitrone - an overview | ScienceDirect Topics**

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**Nitrone - an overview | ScienceDirect Topics**

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

sites of inflammation.

**Trapping of DNA radicals with the nitrone spin trap 5,5 ...**

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**The Utilization Of Nitrone Spin Traps In A Study Of The ...**

Potential implication of the chemical properties and bioactivity of nitrone spin

traps for therapeutics. Future Medicinal Chemistry 2012, 4 (9) , 1171-1207. DOI: 10.4155/fmc.12.74. Valery V. Khramtsov, Thomas L. Clanton. NMR Spin Trapping: Insight into the Hidden Life of Free Radical Adducts.

**Mechanistic Studies of the Reactions of Nitrone Spin Trap ...**

A novel cyclic nitrone spin trap, 5-tert-butoxycarbonyl 5-methyl-1-pyrroline N-oxide (BMPO) as a pure white solid has been synthesized for the first time. BMPO offers several advantages over the existing spin traps in the detection and characterization of thiyl radicals, hydroxyl radicals, and superoxide anions in biological systems.

**Synthesis and biochemical applications of a solid cyclic ...**

Psoriasis is treated by application of a composition containing a nitrone spin trap such as α-phenyl t-butyl nitrone (PBN) and derivatives thereof. Preferred compositions and method of treatments...

**US9034926B2 - Topical nitrone spin trap compositions for ...**

Radical detection. A common method for spin-trapping involves the addition of radical to a nitrone spin trap resulting in the formation of a spin adduct, a nitroxide-based persistent radical, that can be detected using EPR.

**Spin trapping - Wikipedia**

Nitrones – From Spin Traps in Free Radical Chemistry to Experimental Animals The nitrone chemical structure in its simplest form can be represented as X-CH=NO-Y. Nitrones began to be used in analytical chemistry applications in the late 1960s. Nitrones will react with

and “trap” and stabilize free radical intermediates (Figure 1).

**Nitrones as Therapeutics**

Thus, the nitrone spin trap 4-POBN can enhance the peroxidase-mediated formation of DSFL −, possibly via the formation of a transient 4-POBN radical species.

**The Spin Trap α -(4-Pyridyl-1-oxide)-N-tert-butylnitrone ...**

A phenyl-based nitrone spin trap developed by AstraZeneca, NXY-059, is due to enter Phase III clinical trials for use in acute ischemic stroke. The utility of this compound in SAINTII trial was unsuccessul though the drugh was safe.

**Nitrone - an overview | ScienceDirect Topics**

A nitrone is a functional group in organic chemistry consisting of an N -oxide of an imine. The general structure is R 1 R 2 C=NR 3+ O − where R 3 is not H. A nitrone is a 1,3-dipole, and is used in 1,3-dipolar cycloadditions.

**Nitrone - Wikipedia**

The spin trap nitrones covalently bind with short-lived reactive radicals to inactivate them for longer than the conventional scavenging antioxidants. One of these agents, NXY-059, is effective in animal models of cerebral ischemia, and is in phase III clinical trials

for ischemic stroke by AstraZeneca, under license from Renovis.

**Nitrone spin on cerebral ischemia - PubMed**

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

characteristic of the nitrone 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.

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

Nitrone, nitroso, and nitroxide spintraps and spin labels and their reduction products are claimed for the prevention and treatment of fibrocystic disease of breast, premenstrual dysphoric syndrome...

**US8778969B2 - Nitrone, nitroso, and nitroxide spintraps ...**

Spin trapping is a powerful tool to study the mechanisms of chemical reactions by scavending and identifying short-lived intermediates. However, unexpected reactivity of nitrone spin traps toward various oxidizers is a problem for biological or environmental applications of spin trapping [1, 2]. To work well as a spin trap, a compound is

to capture free radicals but it must not participate in other reactions that might give paramagnetic products.

**Semi-Empirical Evaluation of the Probability of Structural ...**

Immunological Detection of Free Radicals In Animals and In Vitro Electron Spin Resonance (ESR) is an universal,

specific tool for the detection of free radicals in biological systems. Its application to the investigation of free radicals from whole animals, organs, and cells has been made possible by the spin-trapping technique.