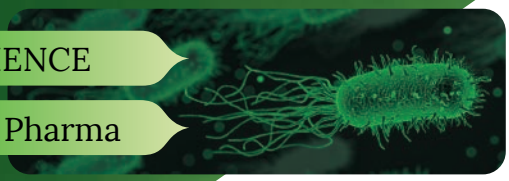
SOLARIS CHEM

LIFE SCIENCE

BioTech / Pharma



NEUROVIUM by SOLARIS CHEM

Neurovium C60

Pharma/Biotech

Description

NEUROVIUM C60 is a research-grade fullerene C60 engineered for applications in pharmaceutical and biotechnology research. With a unique hollow carbon-cage structure, fullerene C60 acts as a **multi-radical scavenger**, neutralizing reactive oxygen and nitrogen species and mimicking the activity of natural antioxidant enzymes such as superoxide dismutase (SOD).

Key Applications in Pharma & Biotech Research:

- **Neuroprotection**: Fullerenes and fullerenols have shown protective effects in neuronal models, reducing apoptosis and oxidative stress in neurodegenerative disease research.
- **Oxidative Stress Modulation**: Studies demonstrate fullerenes' capacity to reduce oxidative damage and lipid peroxidation, relevant for cardiovascular, renal, and hepatic research.
- **Drug Delivery Nanocarriers**: The spherical structure and functionalizability of C60 enable conjugation with drugs, peptides, or nucleic acids for targeted delivery.
- **Anti-viral and Anti-proliferative Research**: Fullerene derivatives have been investigated for inhibitory effects on viral proteases and in oncology-related studies.

References

"Protective effects of fullerenol C60(OH)24 against doxorubicin-induced cardiotoxicity in rats",
Author(s): Injac, R. et al. - Biomaterials (2009).

"Neuroprotective potential of fullerenol nanoparticles",
Author(s): Injac, R. et al. - Pharmacol. Reports (2011)

"[60] Fullerene is a powerful antioxidant in vivo with no acute toxicity",
Author(s): Gharbi, N. et al. - Toxicol. Lett. (2005).

"Study of aqueous fullerenol as a radical sponge",
Author(s): Andrievsky, G.V. et al. - J. Nanoscience Nanotech. (2002).

"Fullerenol nanoparticles: antioxidant and protective properties (neuro-, hepato-, nephroprotective) ",
Author(s): MST Nano - (2024).

NEUROVIUM

Neurovium C60

SOL5060-NV

Available from **g level** (for R&D, Tech centers and universities) to **kg level** (for industrial developments).

SOLVENT FREE

SOLVENT FREE GRADE:

Grade 99.99% (SOL5060-NV-YY)
Solvent-free* eZeSol

SUBLIMED GRADE:

Grade 99.99% (SOL5060-NV-S)
Solvent-free* eZeSol . Sublimed

* eZeSol These C60 products are going through further process in order to be highly soluble in organic solvents, oils and other related medias.

Time to dissolve/disperse in (provided as a guideline only):

Toluene: Few seconds to few minutes (max 3 g/L).

o-DCB: Few seconds to few minutes (max 24 g/L).

Olive oil: 3-5 days (to 0.8-1g/L, vs 2 weeks for most common C60 powder).

* Solvents and volatiles are removed by subjecting the C60 to a controlled heat-cool process under dynamic inert medical nitrogen in order to suppress oxidation and preserve its pristine nature.

Green chemistry

Environmentally friendly

SUSTAINABILITY is at the core of what we do and our engine for growth, which is why we prioritize the use of GREEN CHEMISTRY, avoid wastes, recover and recycle solvents and materials as much as possible and use renewable hydro-electrical energy to power our operations.

Buy now

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SOLARIS CHEM

LIFE SCIENCE

BioTech / Pharma

Neurovium WS C60

Pharma/Biotech Water soluble

Description

NEUROVIUM WS C60 is a research-grade **fullerenol C60(OH)x**, the water-soluble derivative of fullerene C60, engineered for **pharmaceutical and biotechnology research**. Hydroxylation makes C60 dispersible in aqueous media, enabling use in biological systems, neurodegenerative disease models, oxidative stress assays, and nanomedicine. With strong radical-scavenging capacity, fullerenol mimics superoxide dismutase (SOD) activity and has been studied for neuroprotection, organ protection, and drug delivery systems.

NEUROVIUM WS C60 is studied as a powerful antioxidant and neuroprotective nanomaterial.

Key Applications in Pharma & Biotech Research:

• **Neuroprotection**: Fullerenol nanoparticles reduce oxidative stress, inhibit neuronal apoptosis, and show potential in models of neurodegenerative disease.

References

"Protective effects of fullerenol C60(OH)24 against doxorubicin-induced cardiotoxicity in rats",
Author(s): Injac, R. et al. - Biomaterials (2009).

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NEUROVIUM Water soluble

Neurovium WS C60

SOL5369-NV

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Solvent-free*

SUBLIMED GRADE:

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Solvent-free*. Sublimed.

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