

Neurovium C60

Pharma/Biotech

Description

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

"Neuroprotective potential of fullerol 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 fullerol as a radical sponge".
Author(s): Andrievsky, G.V. et al. - J. Nanoscience Nanotech. (2002).

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



Neurovium C60 SOL5060-NV

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



SOLVENT FREE GRADE:

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

SUBLIMED GRADE:

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

* . 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.



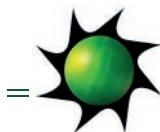
Green chemistry



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.

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Neurovium WS C60

Pharma/Biotech Water soluble

Description

NEUROVIVUM 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.

NEUROVIVUM 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).

"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",
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"Study of aqueous fullerenol as a radical sponge",
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