



Hydroxy C60

Cosmetics Water soluble

Description

LUMERIUM HYDROXY C60 is a high-purity, water-soluble fullerene derivative (fullerenol C60(OH)_x) designed specifically for cosmetic and dermatological applications. Unlike pristine fullerene, LUMERIUM WS C60 disperses easily in aqueous systems such as serums, gels, and lotions, enabling broad formulation possibilities. Known as a potent “radical sponge”, fullerenol neutralizes multiple reactive oxygen species simultaneously, making it a unique anti-aging and skin-protective active.



LUMERIUM HYDROXY C60 delivers powerful antioxidant protection in serums, gels, and lotions — helping to reduce oxidative stress, support collagen integrity, and enhance skin vitality.

Key Benefits for Cosmetics:

- **Potent antioxidant capacity:** Quenches free radicals in aqueous environments, protecting skin from oxidative stress.
- **Clinically studied protective effects on cellular systems, reducing oxidative damage**¹
- **Supports skin vitality and elasticity:** by modulating collagen integrity³
- **Hydrophilic, formulation-friendly:** Ideal for serums, toners, and water-based emulsions.
- **Synergistic with vitamins and other hydrophilic actives.**

References

1. “Study of C60 fullerenol as a powerful antioxidant in aqueous systems”, Author(s): Andrievsky, G.V. et al. - J. Nanoscience Nanotechnol (2002).
2. “[60] Fullerene is a powerful antioxidant in vivo with no acute toxicity”, Author(s): Gharbi, N. et al. - Toxicol. Lett. (2005).
3. “Fullerenol nanoparticles: antioxidant and protective effects on skin and systemic oxidative stress”, Author(s): Injac, R. et al. - Biomaterials (2009).
4. “Influence of hyper-harmonized fullerene water complexes on collagen and skin biophysics”, Author(s): Miljkovic, S. et al. - J. Cosmet. Dermatol. (2020).
5. “Anti-Inflammatory and Antioxidant Effects of Fullerenol in topical application”, Author(s): Hui, M. et al. - (2023).
6. “Study of the antioxidant capacity of fullerenols in cosmetic formulations”, Author(s): Antunes-Ricardo, M. et al. - LACCEI (2024).



Lumerium Hydroxy C60 SOL5369YL

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



PRODUCT SPECIFICATIONS

Grade 99.95% (SOL5369YL)
Solvent-free* 

*Optimized for high solubility in water and aqueous buffers.

**Purity preservation: Packed under inert medical nitrogen gas to inhibit oxidation.

***Synthesized via a Solvent-Free Method (A Solaris Chem Inc proprietary solvent-free synthetic method is used, resulting in a solvent free material).



Green chemistry



Environmentally friendly

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



SUSTAINABILITY is fundamental to our operations and serves as the driving force behind our growth. At Solaris Chem, we emphasize the principles of green chemistry, minimize waste, recover and recycle solvents and materials to the greatest extent possible, and utilize renewable hydroelectric energy to support our activities.

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