

## Product Data Sheet

Product Name: Fullerene-C60

Cat. No.: GC61661

### Chemical Properties

Cas. No. 99685-96-8

SMILES C1(C2=C3C4=C15)=C(C6=C7C2=C8C(C(C9=C%10%11)=C%12C%10=C%13C%14=C%15%16)=C7C%17=C9C%18=C%19C%17=C6C%20=C%21C%19=C%22C%23=C%18C%11=C%14C%23=C%24C%16=C%25C%26=C%27C4=C%28C%29=C3C8=C%12C%29=C%13C%15=C%28%26)C%20=C%30C5=C%27C%31=C%25C%24=C%22C%21=C%30%31

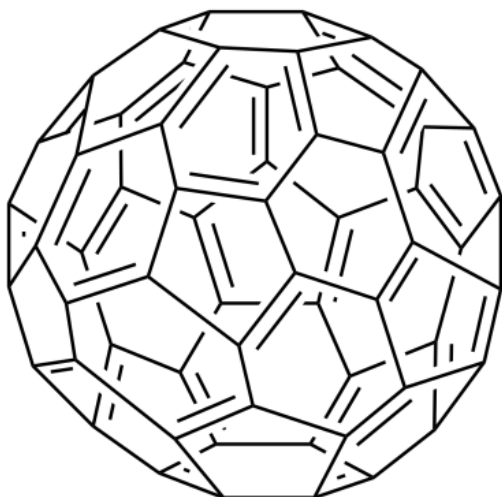
Formula C<sub>60</sub> M.Wt 720.64

Solubility Water: < 0.1 mg/mL (ultrasonic) (insoluble); DMSO: < 1 mg/mL (ultrasonic) (insoluble or slightly soluble) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Fullerene-C60, a representative of carbon nanocompounds, is suggested to be promising agent for application in photodynamic therapy due to its unique physicochemical properties. Fullerene-C60 probes the intramolecular dynamics of its electron and energy transfer[1].

High affinity of fullerene core for electron donors determines its ability to be a scavenger of free radicals. On the other hand, C60 molecule is able to absorb effectively UV and visible light with further transition to the first singlet excited state, then to a long-lived triplet excited state and subsequent energy transfer to molecular oxygen-yielding singlet oxygen with quantum yield close to 100%[1].

[1]. D Franskevych, et al. Fullerene C 60 Penetration into Leukemic Cells and Its Photoinduced Cytotoxic Effects. *Nanoscale Res Lett.* 2017 Dec;12(1):40.

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