



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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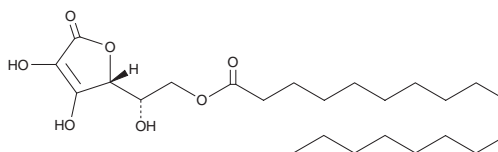
# PRODUCT INFORMATION



## L-Ascorbic Acid 6-stearate

Item No. 39142

**CAS Registry No.:** 10605-09-1  
**Formal Name:** 6-octadecanoate L-ascorbic acid  
**Synonyms:** L-Ascorbyl-6-stearate,  
6-O-Stearoyl-L-Ascorbic Acid  
**MF:** C<sub>24</sub>H<sub>42</sub>O<sub>7</sub>  
**FW:** 442.6  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 246 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

L-Ascorbic acid 6-stearate is supplied as a solid. A stock solution may be made by dissolving the L-ascorbic acid 6-stearate in the solvent of choice, which should be purged with an inert gas. L-Ascorbic acid 6-stearate is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of L-ascorbic acid 6-stearate in ethanol is approximately 5 mg/ml and approximately 10 mg/ml in DMSO and DMF.

### Description

L-Ascorbic acid 6-stearate is a derivative of L-ascorbic acid (Item No. 14656) and stearic acid (Item No. 10011298) that has been found in *K. coccinea* and has antioxidant and anticancer activities.<sup>1-3</sup> It scavenges DPPH (Item No. 14805) in a cell-free assay (IC<sub>50</sub> = 3.31 μg/ml).<sup>3</sup> Lipid nanoparticles (LNPs) encapsulating L-ascorbic acid 6-stearate induce apoptosis in HL-60 promyeloblasts when used at a concentration of 190 μM.<sup>1</sup> Formulations containing L-ascorbic acid 6-stearate have been used in cosmetics and personal care products.

### References

1. Frungillo, L., Martins, D., Teixeira, S., *et al.* Targeted antitumoral dehydrocrotonin nanoparticles with L-ascorbic acid 6-stearate. *J. Pharm. Sci.* **98(12)**, 4796-4807 (2009).
2. Shinomiya, K., Li, H., and Kitanaka, S. Countercurrent chromatographic separation of lipophilic ascorbic acid derivatives and extract from *Kadsura coccinea* using hydrophobic organic-aqueous two-phase solvent systems. *J. Liq. Chromatogr. Relat. Technol.* **32(16)**, 2361-2371 (2009).
3. Kharrat, N., Aissa, I., Sghaier, M., *et al.* Lipophilization of ascorbic acid: A monolayer study and biological and antileishmanial activities. *J. Agric. Food Chem.* **62(37)**, 9118-9127 (2014).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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