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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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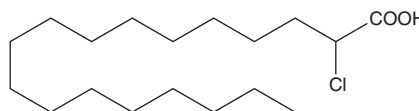
PRODUCT INFORMATION



2-chloro Stearic Acid

Item No. 26108

CAS Registry No.: 56279-49-3
Formal Name: 2-chloro-octadecanoic acid
Synonym: α -Chlorostearic acid
MF: C₁₈H₃₅ClO₂
FW: 318.9
Purity: \geq 95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: \geq 2 years



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

Laboratory Procedures

2-chloro Stearic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 2-chloro stearic acid in the solvent of choice. 2-chloro Stearic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 2-chloro stearic acid in these solvents is approximately 20, 10, and 30 mg/ml, respectively.

Description

2-chloro Stearic acid is a bioactive fatty acid that accumulates in primary human monocytes and neutrophils as well as murine neutrophils stimulated with phorbol 12-myristate 13-acetate (PMA; Item No. 10008014).^{1,2} It induces DNA release from primary human neutrophils.¹ 2-chloro Stearic acid is toxic to *C. quinquefasciatus* larvae (LC₅₀ = <1 ppm).³

References

1. Wang, W.Y., Albert, C.J., and Ford, D.A. α -Chlorofatty acid accumulates in activated monocytes and causes apoptosis through reactive oxygen species production and endoplasmic reticulum stress. *Arterioscler. Thromb. Vasc. Biol.* **34**(3), 526-532 (2014).
2. Palladino, E.N.D., Katunga, L.A., Kolar, G.R., et al. 2-Chlorofatty acids: Lipid mediators of neutrophil extracellular trap formation. *J. Lipid. Res.* **59**(8), 1424-1432 (2018).
3. Hwang, Y.-S., Darwazeh, H.A., and Navvab Gojrati, H.A. Overcrowding factors of mosquito larvae - larvicidal activity of substituted alcanoic acids and their esters. *Proc. Pap. Annu. Conf. Calif. Mosq. Control Assoc.* **45**, 160-161 (1977).

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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