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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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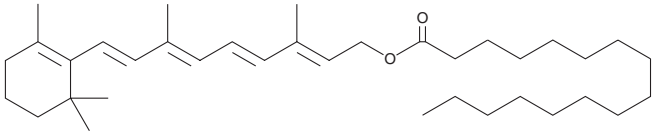
PRODUCT INFORMATION

Retinyl Palmitate

Item No. 23796

CAS Registry No.:	79-81-2
Formal Name:	retinol hexadecanoate
Synonyms:	all-*trans* Retinyl Palmitate, Vitamin A Palmitate
MF:	$C_{36}H_{60}O_2$
FW:	524.9
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

Retinyl palmitate is supplied as a solid. A stock solution may be made by dissolving the retinyl palmitate in the solvent of choice, which should be purged with an inert gas. Retinyl palmitate is slightly soluble in chloroform and methanol.

Description

Retinyl palmitate is a natural ester form of vitamin A (Item No. 20241).[1] It is a major storage form of vitamin A *in vivo*.[2] Retinyl palmitate (1-100 µM) is cytotoxic to HeLa cells both alone and to a greater effect when combined with photodynamic therapy.[3] It decreases tumor volume by 50% in a human gallbladder cancer mouse xenograft model when administered at doses of 1,000 or 2,500 IU/animal per day for three weeks and when administered prior to tumor implantation at a dose of 2,500 IU/animal.[4]

References

1. McCormick, A.M. and Napoli, J.L. Identification of 5,6-epoxyretinoic acid as an endogenous retinol metabolite. *J. Biol. Chem.* **257(4)**, 1730-1735 (1982).
2. O'Byrne, S.M. and Blaner, W.S. Retinol and retinyl esters: Biochemistry and physiology. *J. Lipid. Res.* **54(7)**, 1731-1743 (2013).
3. Ibrahim, T., El Rouby, M.N., Al-Sherbini, el-S.A., *et al*. Photodecomposition, photomutagenicity and photocytotoxicity of retinyl palmitate under He-Ne laser photoirradiation and its effects on photodynamic therapy of cancer cells *in vitro*. *Photodiagnosis Photodyn. Ther.* **13**, 316-322 (2016).
4. Li, C., Imai, M., Yamasaki, M., *et al*. Effects of pre- and post-administration of vitamin A on the growth of refractory cancers in xenograft mice. *Biol. Pharm. Bull.* **40(4)**, 486-494 (2017).

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