



LKT Laboratories, Inc.

Retinyl Acetate

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Product Information

Product ID R1878

CAS No. 127-47-9

Chemical Name

Synonym Vitamin A acetate, all-trans-Retinol acetate, Myvak

Formula $C_{22}H_{32}O_2$

Formula Wt. 328.49

Melting Point 57-58 °C

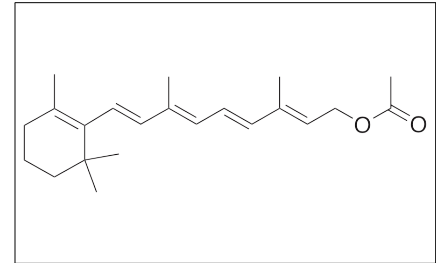
Purity ≥96%

Solubility Soluble in ethanol.

Store Temp 4 °C

Ship Temp Ambient

Description Retinyl acetate is the acetate ester of retinol and it is commercially used as a vitamin A supplement. Retinyl acetate exhibits antibiotic, anti-diabetic, anti-inflammatory, and anticancer chemotherapeutic activities. Retinyl acetate modulates Ca^{2+} signaling in vitro and is occasionally used to improve embryo production in livestock. This compound displays antibacterial efficacy against *Mycobacterium* in vitro. In vivo, retinyl acetate decreases incidence of diabetes and suppresses LPS-stimulated TNF- α expression. In animal models of colorectal cancer, retinyl acetate upregulates expression of TRAIL receptors, inhibiting tumor growth and increasing survival rates.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
R1878	5 g	\$71.70
R1878	25 g	\$182.00
R1878	100 g	\$496.10

References Chiamenti A, Filho CR, Moura MT, et al. Use of retinyl acetate, retinoic acid and insulin-like growth factor-I (IGF-I) to enhance goat embryo production. *Acta Vet Hung.* 2013 Mar;61(1):116-24. PMID: 23439296.

Greenstein RJ, Su L, Brown ST. Vitamins A & D inhibit the growth of mycobacteria in radiometric culture. *PLoS One.* 2012;7(1):e29631. PMID: 22235314.

Zhang L, Ren X, Alt E, et al. Chemoprevention of colorectal cancer by targeting APC-deficient cells for apoptosis. *Nature.* 2010 Apr 15;464(7291):1058-61. PMID: 20348907.

Zunino SJ, Storms DH, Stephensen CB. Diets rich in polyphenols and vitamin A inhibit the development of type I autoimmune diabetes in nonobese diabetic mice. *J Nutr.* 2007 May;137(5):1216-21. PMID: 17449584.

Hill TD, Boynton AL, Dean NM, et al. Retinyl acetate inhibits platelet-derived growth factor-induced Ca^{2+} signals in C3H 10T1/2 fibroblasts. *J Cell Physiol.* 1990 Aug;144(2):229-36. PMID: 2380253.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.