

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
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



Vitamin A

Item No. 20241

CAS Registry No.:	68-26-8	
Formal Name:	(2E,4E,6E,8E)-3,7-dimethyl-9-(2,6,6-	
	trimethylcyclohex-1-en-1-yl)nona-	
	2,4,6,8-tetraen-1-ol	
Synonyms:	all-trans Retinol, all-trans Vitamin A,	
	NSC 122759, Vitamin A₁ Alcohol	
MF:	C ₂₀ H ₃₀ O	
FW:	286.5	
Purity:	≥95%	
Supplied as:	A crystalline solid	↓ \
Storage:	-20°C	
Stability:	≥2 years	
Special Conditions: Light sensitive		
Item Origin:	Synthetic	

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

Laboratory Procedures

Vitamin A is supplied as a crystalline solid. A stock solution may be made by dissolving the vitamin A in the solvent of choice, which should be purged with an inert gas. Vitamin A is soluble in organic solvents such as chloroform, ethanol, DMSO, and dimethyl formamide (DMF). The solubility of vitamin A in these solvents is approximately 10 mg/ml in chloroform and ethanol and approximately 30 mg/ml in DMSO and DMF.

Description

Vitamin A, also known as all-trans retinol, is an intermediate in retinol metabolism in animals. It is metabolized to retinoic acid (Item No. 11017), a ligand for both the retinoic acid receptor (RAR) and the retinoid X receptor (RXR). RAR and RXR heterodimerize and act as ligand-dependent transcriptional regulators, with roles in development, reproduction, immunity, organogenesis, and cancer.¹⁻³

References

- 1. Duong, V. and Rochette-Egly, C. The molecular physiology of nuclear retinoic acid receptors. From health to disease. Biochim. Biophys. Acta. 1812(8), 1023-1031 (2011).
- Rochette-Egly, C. and Germain, P. Dynamic and combinatorial control of gene expression by nuclear 2. retinoic acid receptors (RARs). Nucl. Recept. Signal. 7, 1-18 (2009).
- 3. Dollé, P. Developmental expression of retinoic acid receptors (RARs). Nucl. Recept. Signal. 7, 1-13 (2009).

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

SAFFTY 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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