

all-trans-retinol dehydrogenase (NAD+)

Cat. No. EXWM-0008

Lot. No. (See product label)

Introduction

Description

The enzyme recognizes all-trans-retinol and all-trans-retinal as substrates and exhibits a strong preference for NAD⁺/NADH as cofactors. Recognizes the substrate both in free form and when bound to cellular-retinol-binding-protein (CRBP1), but has higher affinity for the bound form. No activity with 11-cis-retinol or 11-cis-retinal (cf. EC 1.1.1.315, 11-cis retinol dehydrogenase). Also active with 3 α -hydroxysteroids.

Synonyms

retinol (vitamin A1) dehydrogenase; MDR; microsomal retinol dehydrogenase; retinol dehydrogenase (misleading); retinal reductase (ambiguous); retinene reductase; epidermal retinol dehydrogenase 2; SDR16C5 (gene name); RDH16 (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.1.1.105

CAS No.

9033-53-8

Reaction

all-trans-retinol-[cellular-retinol-binding-protein] + NAD⁺ = all-trans-retinal-[cellular-retinol-binding-protein] + NADH + H⁺

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.