

2,5-dioxovalerate dehydrogenase

Cat. No. EXWM-1132

Lot. No. (See product label)

Introduction

Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on the aldehyde or oxo group of donor with NAD⁺ or NADP⁺ as acceptor. The systematic name of this enzyme class is 2,5-dioxopentanoate:NADP⁺ 5-oxidoreductase. Other names in common use include 2-oxoglutarate semialdehyde dehydrogenase, and alpha-ketoglutaric semialdehyde dehydrogenase. This enzyme participates in ascorbate and aldarate metabolism.

Synonyms

2-oxoglutarate semialdehyde dehydrogenase; α-ketoglutaric semialdehyde dehydrogenase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.2.1.26

CAS No.

37250-92-3

Reaction

2,5-dioxopentanoate + NADP⁺ + H₂O = 2-oxoglutarate + NADPH + 2 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.