

Uricase, Recombinant

Cat. No. DIA-294

Lot. No. (See product label)

Introduction

Description

The enzyme urate oxidase (UO), or uricase or factor-independent urate hydroxylase, absent in humans, catalyzes the oxidation of uric acid to 5-hydroxyisourate: $\text{Uric acid} + \text{O}_2 + \text{H}_2\text{O} \rightarrow 5\text{-hydroxyisourate} + \text{H}_2\text{O}_2 \rightarrow \text{allantoin} + \text{CO}_2$

Applications

Uricase can catalyze the enzymatic oxidation of uric acid to allantoin rapidly, so it is used to detect the amount of uric acid in the serum and urine.

Synonyms

urate oxidase; uric acid oxidase; uricase; uricase; urate: oxygen oxidoreductase; EC 1.7.3.3; uricase II

Product Information

Appearance

White powder, lyophilized

EC Number

EC 1.7.3.3

CAS No.

9002-12-4

Molecular Weight

About 45kDa (SDS-PAGE detection)

Purity

>90% (SDS-PAGE test)

Activity

About 10U/mg

Buffer

20mM Tris, pH8.0

Unit Definition

One unit will convert 1μmol uric acid to oxidize per min at pH 8.5 and at 37°C.

Storage and Shipping Information

Storage

4°C, store at -20°C for long-term preservation.