

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.