Creative Enzymes®

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: Uric acid + O2 + H2O → 5-hydroxyisourate + H2O2 → allantoin + CO2
Applications	Uricase cancatalyze the enzymatic oxidation of uric acid to allantoate 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.