

## Uricase, Recombinant

### Product Information

<b>Cat#</b>	DIA-294
<b>Similar</b>	UO
<b>Description</b>	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 + O <sub>2</sub> + H <sub>2</sub> O → 5-hydroxyisourate + H <sub>2</sub> O <sub>2</sub> → allantoin + CO <sub>2</sub>
<b>Activity</b>	About 10U/mg
<b>CAS No.</b>	9002-12-4
<b>Unit Definition</b>	One unit will convert 1μmol uric acid to oxidize per min at pH 8.5 and at 37°C.
<b>Storage</b>	4°C, store at -20°C for long-term preservation.
<b>Synonyms</b>	urate oxidase; uric acid oxidase; uricase; uricase; urate: oxygen oxidoreductase; EC 1.7.3.3; uricase II
<b>Enzyme Commission Number</b>	EC 1.7.3.3
<b>Purity</b>	>90% (SDS-PAGE test)
<b>Buffer</b>	20mM Tris, pH8.0
<b>Abbr</b>	UO, Recombinant
<b>Alias</b>	UO
<b>Applications</b>	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.
<b>Appearance</b>	White powder, lyophilized
<b>Molecular Weight</b>	About 45kDa (SDS-PAGE detection)