

Active Recombinant *Aspergillus flavus* Urate Oxidase, Tag Free

Cat. No. UOX-13A **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Urate Oxidase Recombinant produced in <i>E. coli</i> is a tetrameric, non-glycosylated polypeptide chain containing 302 amino acids. The cDNA coding for urate-oxidase was cloned from a strain of <i>Aspergillus flavus</i> . The monomer protein has no intra- or inter-disulfide bridges.
Species	<i>Aspergillus flavus</i>
Source	<i>E. coli</i>
Description	Urate oxidase catalyzes the enzymatic oxidation (degrades) of uric acid into allantoin, an inactive and soluble metabolite, which is 5 to 10 fold more soluble than uric acid. Urate oxidase is an enzyme of the purine breakdown pathway that catalyses the oxidation of uric acid to allantoin. Uricase is present in numerous diverse organisms, but not in higher primates including human. Hyperuricaemia is most commonly associated with gout and also occurs in mammals with malignancy, especially those with lymphoid malignancies due to rapid cell turnover and an increased rate of purine metabolism. Uricase is effective in the prevention and treatment of hyperuricaemia in mammals with malignancy and in those who have undergone transplantation. It appears to act rapidly, safely and induces a more dramatic decrease in plasma levels of uric acid.
Tag	Non

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Form	Sterile Filtered White lyophilized (freeze-dried) powder
Formula	C1523H2383N417O462S7
Bio-activity	The specific activity was found to be 10 U/mg. One Unit oxidizes one micromole of uric acid per minute at 25 centigrade, at pH 8.5.
Molecular Mass	34,247 Dalton
AA Sequence	msavkaarygkdnrvvykvhkdektgvqtvymetvcvlllegeietsytkadnsvivatdsikntiyitakqnpvtppef gsilgthfiekynhihaahvnivchrwtrmdidgkphphsfirdseekrnvqvddvegkgidiksslsgrltvksnsgfw gflrdeyttlketwdrilstvdvdatwqwnfsglqevrshvpkfdatwatarevtlktfaednsasvqatmykmaeqilar qqlietveyslpnkhyfeidlswhkgqlqntgknaevfapqsdpnglikctvgrsslskskl
Purity	> 90% by SDS-PAGE
Notes	Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	Lyophilized Urate Oxidase although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution Uricase should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. Please prevent freeze-thaw cycles.
Storage Buffer	Each 1.5 mg Uricase contains 5 mg sucrose, 25 mg glycine, 0.1 mg Tween-80, 13.6 mg Na2HPO4*12H2O and 0.33 mg NaH2PO4*2H2O.
Reconstitution	We highly recommend reconstituting the lyophilized Uricase in 50mM borate buffer containing 0.001%Triton X-100 and 1.0mM EDTA, pH 8.5 for activity assay.

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Shipping	Shipped at Room temperature.
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GENE INFORMATION

Official Symbol	UOX
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Synonyms	Urate Oxidase; Uricase; Urate Oxygen; Oxidoreductase; UOX; UO; EC 1.7.3.
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