

Recombinant Urate Oxidase (Pseudogene)

Cat. No. UOX-84H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Urate Oxidase produced in E.Coli is a tetrameric, non-glycosylated polypeptide chain containing 301 amino acids, having a molecular formula of C ₁₅₂₃ H ₂₃₈₃ N ₄₁₇ O ₄₆₂ S ₇ and a molecular mass of 34,247 Dalton.
Species	Human
Source	E.coli
Description	Urate oxidase also called uricase urate oxygen, oxidoreductase, catalyzes the enzymatic oxidation of uric acid into allantoin, an inactive and soluble metabolite.
Amino Acid Sequence	msavkaaryg kdnrvykvh kdektgvqtv yemtcvllv geietsytka dnsvivatds ikntiyitak qnpvtppeflf gsilgthfie kynhihaahv nivchrwtrm didgkphphs firdseekrn vqvdivvegkg idiksslsagl tvlkstnsqf wgfirdeytt lketwdrils tdvdatwqwk nfgslqevrs hvpkfdatwa tarevtlktf aednsasvqa tmykmaeqil arqqlietve yslpnkhyfe idlshwkgllq ntgknaevfa pqsdpnglik ctvgrsslks kl.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Each 1.5 mg urate oxidase contains 5 mg sucrose, 25 mg glycine, 0.1 mg Tween-80, 13.6 mg Na ₂ HPO ₄ *12H ₂ O and 0.33 mg NaH ₂ PO ₄ *2H ₂ O.

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Biological Activity	The specific activity was found to be 18 U/mg. One Unit oxidizes one micromole of uric acid per minute at 30°C, at pH 8.9.
Solubility	It is recommended to reconstitute the lyophilized UOX in sterile 18 MΩ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized UOX although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution UOX should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

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