

Product Data Sheet

□ Cat # RP-398                      Recombinant Urate Oxidase                      **Size:** □ 100 ug

Urate oxidase also called uricase urate oxygen, oxidoreductase, catalyzes the enzymatic oxidation of uric acid into allantoin, an inactive and soluble metabolite.

**Source:** *Escherichia Coli*. Urate Oxidase Human Recombinant 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. Each 1.5mg urate oxidase contains 5mg sucrose, 25mg glycine, 0.1mg Tween-80, 13.6 mg  $Na_2HPO_4 \cdot 12H_2O$  and 0.33 mg  $NaH_2PO_4 \cdot 2H_2O$ .

**Applications and Suggested Dilutions:** It is recommended to reconstitute the lyophilized UOX in sterile 18MΩ-cm  $H_2O$  not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and 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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

**Biological Activity:** The specific activity was found to be 18U/mg. One Unit oxidizes one micromole of uric acid per minute at 30°C, at pH 8.9.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

RP-398                      110208V

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