

# Uricase Recombinant Protein



RPPB2413

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## Product Information    Protein Information

**Product SKU:**

RPPB2413

**Host:**

Escherichia Coli.

**Protein description:**

Urate Oxidase Recombinant produced in E.Coli is a tetrameric, non-glycosylated polypeptide chain containing 302 amino acids, having a molecular formula of C<sub>1523</sub>H<sub>2383</sub>N<sub>417</sub>O<sub>462</sub>S<sub>7</sub> and a molecular mass of 34,247 Dalton. The cDNA coding for urate-oxidase was cloned from a strain of *Aspergillus flavus*. The monomer protein has no intra- or inter-disulfide bridges.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

Urate Oxidase, Uricase, Urate Oxygen, Oxidoreductase, UOX, UO, EC 1.7.3.

**Formulation:**

Each 1.5mg Uricase contains 5mg sucrose, 25mg glycine, 0.1mg Tween-80, 13.6 mg Na<sub>2</sub>HPO<sub>4</sub>\*12H<sub>2</sub>O and 0.33 mg NaH<sub>2</sub>PO<sub>4</sub>\*2H<sub>2</sub>O.

**Purity:**

Greater than 90.0% as determined by SDS-PAGE.

**Solubility:**

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.

**Stability:**

Lyophilized Urate Oxidase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Uricase should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

msavkaaryg kdnrvykvh kdektgvqtv yemtvclle geietsytk dnsvivatds ikntiyitak qnpvtppefl gsilgthfie kynhihaahv nivchrwtrm didgkphphs firdseekrn vqvdvvegkg idiksslsqg tvlksstnsqf wglrdeytl kketwdrils tdvdatwqwk nfsglqevrs hypkfdatwa tarevtlktf aednsasvqa tmykmaeqil arqqlietve yslpnkhyfe idlswhkgllq ntgknaevfa pqsdpnglik ctvgrsslks kl.

**Biological Activity:**

The specific activity was found to be 10U/mg. One Unit oxidizes one micromole of uric acid per minute at 25°C, at pH 8.5.