

## Urate Oxidase Active Protein | Uox active protein

Recombinant Urate Oxidase

CATALOG #  
**AAA38272**

### PRODUCT SYNONYMS

Urate Oxidase; Recombinant Urate Oxidase; Uricase; Urate Oxygen; Oxidoreductase; UOX; UO; EC 1.7.3.; Uox active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | Greater than 90.0% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                             |
| Form/Format             | 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.<br>Sterile Filtered White lyophilized (freeze-dried) powder.                                                                         |
| Sequence                | msavkaaryg kdnrvykvh kdektgvqv yemtvclle geietsytka dmsvivatds ikntiyitak qnpvtppeff gsilgthfie kynhihaahv nivchrwtrm didgkphphs firdseekrn vqvdvvegkg idiksslsqg tlvkstnsqf wgfirdeyrt lketwdrils tdvdatwqwk nfgslqevrs hvpkfdatwa tarevtlktf aednsasvqa tmykmaeqil arqqlietve yslpnkhyfe idlswkhglq ntgknaevfa pqsdpnglik ctvgrsslks kl |
| Sequence Length         | 303                                                                                                                                                                                                                                                                                                                                       |
| Source                  | E. coli                                                                                                                                                                                                                                                                                                                                   |
| 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.                                                                                                                                                                                 |
| Biological Activity     | The specific activity was found to be 10U/mg. One Unit oxidizes one micromole of uric acid per minute at 25 degree C, at pH 8.5.                                                                                                                                                                                                          |
| Preparation and Storage | 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.                                                                               |

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for Uox active 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 C1523H2383N417O462S7 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. |
| Product Categories/Family for Uox active protein   | <a href="#">Enzymes</a> ; <a href="#">Oxidase</a>                                                                                                                                                                                                                                                                                                                                   |

### NCBI AND UNIPROT INFORMATION

|                                  |                             |
|----------------------------------|-----------------------------|
| NCBI GI #                        | <a href="#">20127395</a>    |
| NCBI GeneID                      | <a href="#">114768</a>      |
| NCBI Accession #                 | <a href="#">NP_446220.1</a> |
| NCBI GenBank Nucleotide #        | <a href="#">NM_053768.2</a> |
| NCBI Official Full Name          | uricase                     |
| NCBI Official Synonym Full Names | urate oxidase               |

|                               |                          |
|-------------------------------|--------------------------|
| NCBI Official Symbol          | Uox                      |
| NCBI Official Synonym Symbols | Uri; Uri2; UOX-2         |
| NCBI Protein Information      | uricase; urate oxidase 2 |
| UniProt Protein Name          | Uricase                  |
| UniProt Gene Name             | <b>Uox</b>               |
| UniProt Entry Name            | URIC_RAT                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/active-protein/urate-oxidase/38272>