

Recombinant Human UOX Protein

Cat. No. UOX-01H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human UOX Protein was expressed in E.coli cell.

Species Human

Source E.coli

ProteinLength 302 amino acids

Description

The cDNA coding for urate-oxidase was cloned from a strain of *Aspergillus flavus*. The monomer protein has no intra- or inter-disulfide bridges. 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.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|--|
| Form | Lyophilized |
| Molecular Mass | 34.247 kDa |
| AA Sequence | <p>msavkaaryg kdnrvykvh kdektgvqtv yemtcvllv geietsytka dnsvivatds ikntiyitak qnpvtppefl gsilgthfie kynhihaahv nivchrwtrm didgkphphs firdseekrn vqvdrvevkg idiksslgl tvlktstnsqf wgflrdeytl lketwdrils tdvdatwqwk nfgslqevrs hvpkfdatwa tarevtlktf aednsasvqa tmykmaeqil arqqlietve yslpnkhyfe idlswhkgllq ntgknaevfa pqsdpnglik ctvgrsslks kl</p> |
| Purity | Greater than 96.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE |
| Storage | <p>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</p> |
| Storage Buffer | Each 1.5mg Uricase contains 5mg sucrose, 25mg glycine, 0.1mg Tween-80, 13.6 mg Na ₂ HPO ₄ *12H ₂ O and 0.33 mg NaH ₂ PO ₄ *2H ₂ O. |
| Reconstitution | <p>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. 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.</p> |

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GENE INFORMATION

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|------------------------|--|
| Gene Name | UOX urate oxidase (pseudogene) [Homo sapiens (human)] |
| Official Symbol | UOX |
| Synonyms | Urate Oxidase,Uricase,Urate Oxygen,Oxidoreductase,UOX,UO,EC 1.7.3. |
| Gene ID | 391051 |

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