

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 <i>Aspergillus flavus</i> . 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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Form	Lyophilized
Molecular Mass	34.247 kDa
AA Sequence	msavkaaryg kdnrvrykvh kdektgvqtv yemtcvllv geietsytka dnsvivatds ikntiyitak qnpvtppeff gsilgthfie kynhihaahv nivchrwtrm didgkphphs firdseekrn vqvdvvegkg idikssls gl tvlkstnsqf wgflrdeytt lketwdrils tdvdatwqwk nfsglqevrs hvpkfdatwa tarevtlktf aednsasvqa tmykmaeqil arqqlietve yslpnkhyfe idlswhkgllq ntgknaevfa pqsdpnglik ctvgrsslks kl
Purity	Greater than 96.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE
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
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	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.

GENE INFORMATION

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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