

## Fructosyl-Amino Acid Oxidase from Corynebacterium sp., Recombinant

### Product Information

<b>Cat#</b>	NATE-0258
<b>Similar</b>	Fructosyl-amino acid oxidase
<b>Source</b>	E. coli
<b>Description</b>	Fructosamines are formed when glucose is condensed amino group of amino acids or proteins. Fructosamine oxidases (FAOX) catalyze the oxidative deglycation of low molecular weight fructosamines. Fructosyl amino acid oxidase catalyzes the oxidation of the C-N bond linking the C1 of the fructosyl moiety and the nitrogen of the amino group of fructosyl amino acids.
<b>Form</b>	lyophilized powder
<b>Activity</b>	> 0.45 units/mg protein
<b>Unit Definition</b>	One unit will produce 1.0 $\mu$ mole of hydrogen peroxide per minute at pH 8.0 at 37°C.
<b>Storage</b>	?20°C
<b>Synonyms</b>	Fructosyl-Amino Acid Oxidase
<b>Abbr</b>	Fructosyl-Amino Acid Oxidase, Recombinant (Corynebacterium sp.)
<b>Applications</b>	Fructosyl-amino acid oxidase can be used to detect the levels of glycated proteins, which are markers for diabetes mellitus.
<b>Product Overview</b>	Enzyme Commission (E.C.) 1.5.3.x, Fructosyl amino acid oxidase [fructosyl-a-l-amino acid:oxygen oxidoreductase] is a flavoprotein that catalyzes the oxidation of fructosyl amino acids to form glucosone, amino acid and hydrogen peroxide.
<b>Molecular Weight</b>	mol wt ~88 kDa by electrophoresis
<b>Species</b>	Corynebacterium sp.