Creative Enzymes
Diagnostic Enzymes

Fructosyl-Amino Acid Oxidase from Corynebacterium sp., Recombinant

Product Information

Cat#	NATE-0258
Similar	Fructosyl-amino acid oxidase
Source	E. coli
Description	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.
Form	lyophilized powder
Activity	> 0.45 units/mg protein
Unit Definition	One unit will produce 1.0 µmole of hydrogen peroxide per minute at pH 8.0 at 37°C.
Storage	?20°C
Synonyms	Fructosyl-Amino Acid Oxidase
Abbr	Fructosyl-Amino Acid Oxidase, Recombinant (Corynebacterium sp.)
Applications	Fructosyl-amino acid oxidase can be used to detect the levels of glycated proteins, which are markers for diabetes mellitus.
Product Overview	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.
Molecular Weight	mol wt ~88 kDa by electrophoresis
Species	Corynebacterium sp.

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